Digifort Explorer Manual
Administration Client
Version 6.4.0.0
Rev. A

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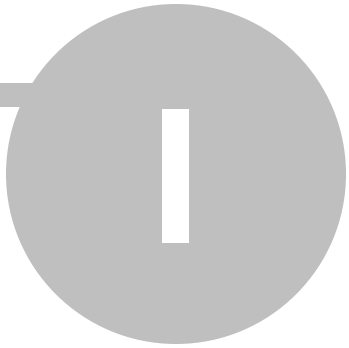
Chapter



1 Welcome to Digifort Explorer Manual

This User Manual and Technical References provides all of the information needed to effectively implement and use all of the basic and advanced features found in the Digifort ExplorerSystem Administration Client.
This manual is constantly updated and does not include the features for Digifort's Beta versions. Information about the use of audio will be included in the next version of this manual.

1.1 Screen Shots

The screen shots contained in this manual may not be identical to the interface that you will see using the Administration Client. Some differences may appear, with no impairment in use of this manual. This is due to the fact that frequent updates and the inclusion of new features are carried out with the purpose of continuous improvement of the system.

1.2 For whom this manual is intended

This manual is directed toward Digifort System administrators who are responsible for the complete configuration of the Digifort Server.

1.3 How to use this manual

This manual is structured into chapters, topics, and sub-topics.
The names of the Digifort System modules and concepts involved with the system are printed in italics.
The items where the user has to interact with buttons, menus and screen names are in bold.

1.4 Prerequisites

For complete appreciation of the content of this manual, some prerequisites are necessary:

- Use of computers and their peripherals equipment.
- Use of the Microsoft Windows operating system.
- Knowledge of client-server architecture.
- Knowledge of computer network architecture.

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Chapter

2 Digifort Services Administrator

The Digifort System is a software developed around the client-server platform, making use of all the features and benefits that this platform offers.

In the client-server platform, all of the information is stored in the central server responsible for its administration. In the case of the Digifort System, the server is the component responsible for (among other functions) maintaining the recordings generated by the images supplied by cameras, administrating disk space, alerting the operators and administrators about system abnormalities and making information available to the clients.

The Digifort Server is an application that runs as a Windows system service, therefore, it is executed automatically when Windows is initiated, without need for user intervention.

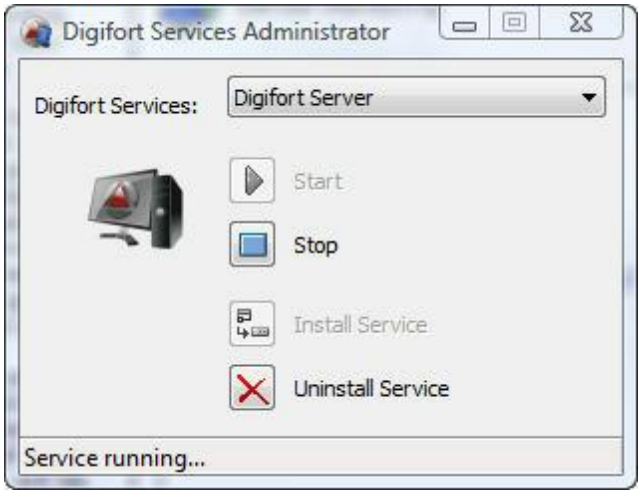
The Services Administrator is the software responsible for the control of its execution, displaying information about the state of working and offering service installation and initialization controls.

Note

As this is a Windows service, Digifort enables you to use its various features, such as the Active directory, the Explorer file management system (DHCP, UpnP), TCP/IP communication systems, video control systems, etc

2.1 How to execute the Digifort Services Administrator

To execute the Services Administrator, locate the Digifort Explorer 6.4.0.0 Server icon on your Desktop, or, in Start->Programs->Digifort Explorer 6.4.0.0 ->Server->Server and execute it. The Services Administrator will be started opening the screen shown in the picture below:



The Services Administrator offers the following functions:

- **Digifort Services:** Displays the list of available services that can be manipulated.
- **Initiate:** Initiates the selected service. Available only if the service is installed and stopped.

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- **Stop:** Stops the selected service. Available only if the service is installed and initiated.
- **Install Service:** Installs the selected service. Available only if the service is not installed.
- **Uninstall Service**: Uninstalls the selected service. Available only if the service is installed and stopped

2.2 How to initiate the Digifort Server service

To initiate the Digifort Server service, first it must be installed. Carry out the following steps to correctly initiate the service:

1. Select the service “Digifort Server”

2. Click on **Install Service**, a confirmation screen will be shown, informing that the service was successfully installed.

3. Click on **Initiate** and wait while the server is initiated. The process of initialization terminates when the message “Service functioning...” appears on the status bar.

Note

If the server was stopped for some reason and initiated again, the initialization process can be slow, since a check-out has to be carried out in all of the existing recordings, creating a disk structure map.

2.3 How to stop the Digifort Server service

At any moment, the execution of the Digifort Server service can be interrupted. When this is done, the server will no longer execute any function such as, for example, the administration of alarms and recording of the cameras.

The process of stopping the Digifort Server is quite simple, just clicking on the Stop button. When the service is successfully stopped, the “Service stopped...” should appear on the status bar.

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Chapter

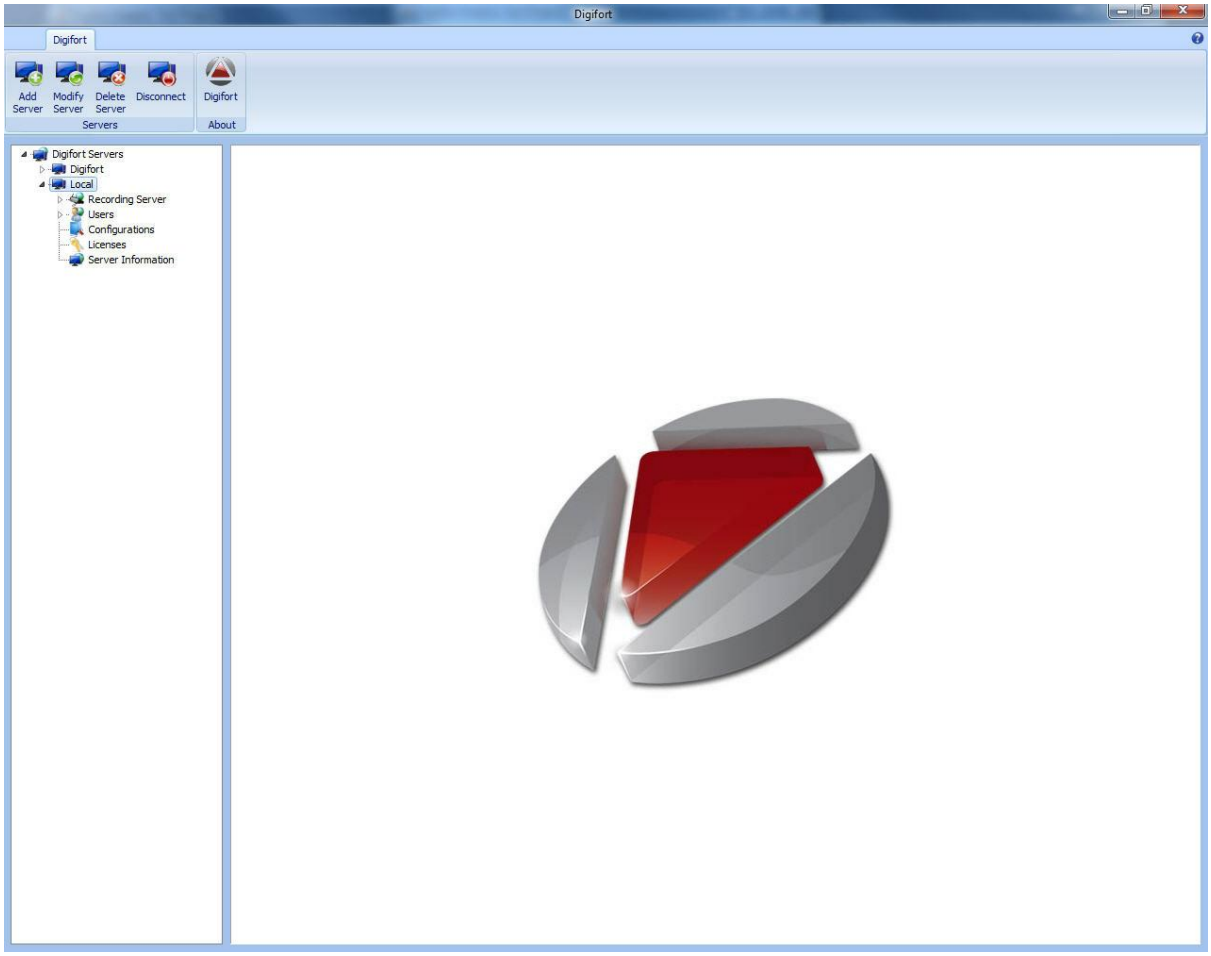
3 Basic functions of the Administration Client

The Administration Client is the Digifort System module responsible for the configuration of the server. Among other functions, in this module you can register cameras, program alarms, check the status of the server and defines the users who will have access to the system.

The Administration Client can administer an unlimited number of servers simultaneously, simply registering the desired servers.

3.1 How to execute the Administration Client

To access the Administration client, locate the icon Digifort Explorer 6.4.0.0 administration client on your Desktop or on
Start Menu->Programs->Digifort->Administration Client and run it. The Administration Client will start as shown in the figure below:



The Administration Client offers the following initial configurations:

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Configurations Menu: This menu displays the configurations available for the selected server. The configurations are shown in tree format that is, with items and sub-items. To access some server configuration, click on the desired menu. The configurations related to the selected item will be displayed in the reserved area at the right of the item.

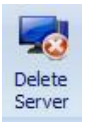
3.1.1 Add Server

Add Server: Starts the inclusion of a server. Use this button to add servers that are administered by the Administration Client. To learn how to include servers see How to configure the servers to be administrated

3.1.2 Modify Server

Modify Server: With the server selected, this option shows the server settings configuration.

3.1.3 Delete Server



Delete Server: Delete selected server.

3.1.4 Disconnect from server

Disconnect from server: Terminates the connection and administration of the selected server. To disconnect from a server, select it in the Configurations Menu and click on this button

3.1.5 About Digifort

About: Show information about current Digifort version.

3.1.6 How to configure the servers to be administrated

The first step to be done in the configuration of a server is to add it to the list of servers to be administrated by the Administration Client.

To add a server, click on the **Add** Server button, opening the server registration screen, as shown in the picture below

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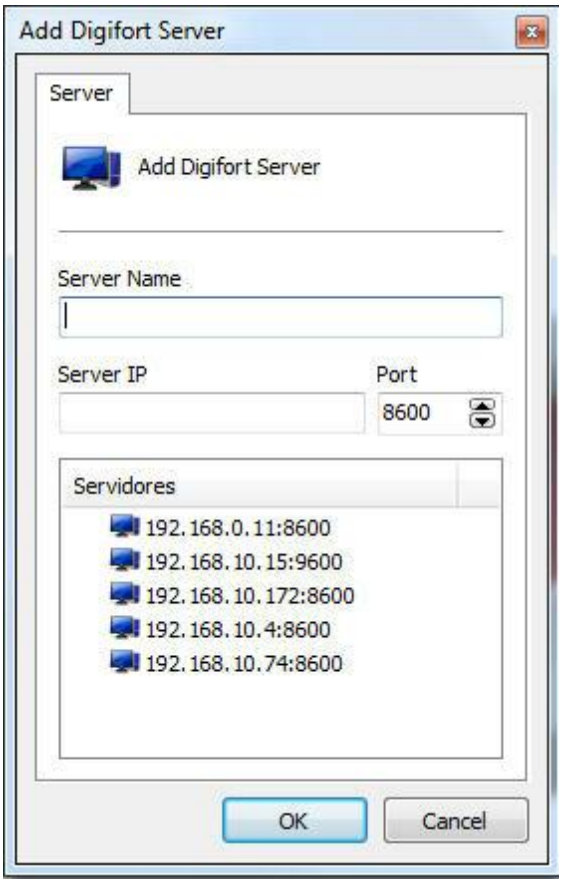

- **Server Name**: Enter the name of the server to be added. After confirmation of the data, the name of the server cannot be changed..
- **Server IP:** Enter the IP of the server to be administrated.
- **Port:** Enter the communication port of the server. As a standard, the port is 8600. The communication port of the server cannot be changed, this configuration should only be changed if accessing the server located in remote places, for example, Internet.
- **Servers**: This list will contain all of the Digifort servers that the Administration Client found in the network. Upon clicking on one of the servers, the IP and Port fields (described above) will be filled in automatically, leaving only the Server Name field to be entered to complete the registration.

After correctly informing all data, click **OK**.
After inclusion of the server, it will be displayed in the Configuration Menu as shown in the picture below

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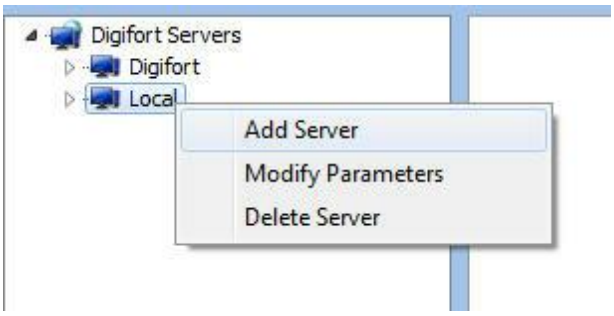

To change the parameters of a server already saved, click on the right button over the desired server and then click on Modify Parameters. In the screen that opens, modify the data as necessary and click on **OK**.

To exclude a server, click on the right button over the desired server and then click on Exclude Server. Click on Yes on the confirmation message that appears.

Tip: If the Digifort Server is being executed on the same computer as the Administration Client, the Loopback IP, identified by 127.0.0.1 may be informed.

Tip

If the Digifort Server is being executed on the same computer as the Administration Client, the Loopback IP, identified by 127.0.0.1 may be informed.

3.2 How to connect a management server

After adding the server, locate in it in the Configurations Menu and double-click on it. Once this is done, you will be asked to provide a username and password to access the server configurations as shown in the picture below:

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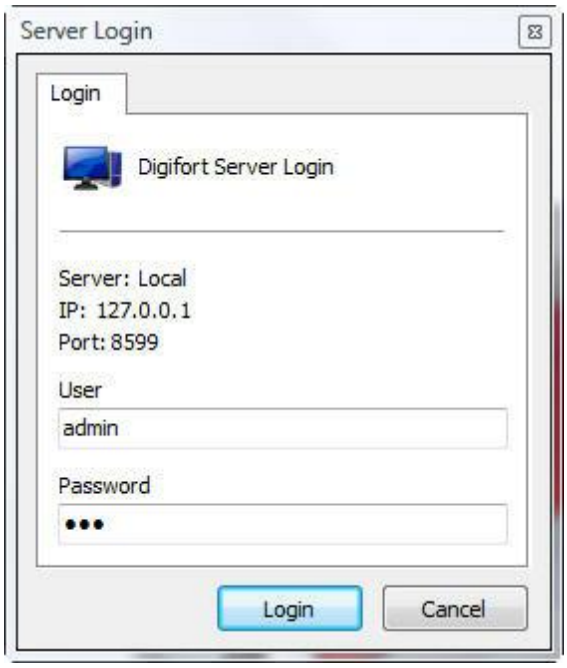

- Username**:** Access username.
- Password**:** Password for access.

Enter your username and password to access the server. If this is the first time you are accessing the system, insert the same username as the admin and leave the password blank.

Once you have filled in the access information, click on OK. If the authentication for access is successful, the Configurations Menu opens showing the configurations available for the server, as shown in the picture below:

Note

The admin user is the only user that cannot be removed from the system and has every right of access. For security purposes, a password must be given to stop unauthorized people accessing the system.

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Chapter IV

4 Licensing Digifort

To unblock the system, it's necessary to execute the licensing of the software.

For the Explorer version of Digifort, a base license with support for recording of 8 initial cameras must be acquired. License packs can also be acquired, which offer support for the management of more cameras. The maximum limit for Digifort Enterprise is 16.

It's important to emphasize that the licenses are only for the recording of cameras. Supposing that we have a park of 16 cameras, but have licenses for the recording of only eight. Then only eight can be recorded, the other eight can only be visualized.

The licenses only work in the server for which the registration solicitation was made. This is because each server generates a different counter-password and the licenses are granted on basis of this counter-password, making them unique.

There are two methods for licensing Digifort, licensing via Internet and via license files.
Licensing via Internet is the safest and the most recommended, but in case your server has no access to Internet, use licensing via license files.

Tip

As Digifort functions in the Client-Server platform, the registration request doesn't have to be made by the server itself, that is, any other computer in the network can make this request by way of the Administration Client.

Important

If the recording server is formatted, a new counter-password is generated by the server. Thus, a new registration must be made.

4.1 How to configure the licenses

Before starting your server, make sure that the HardKey which is sold together with the software is correctly connected to your machine.

To start the licensing of Digifort, after logging in to the server, find the Licenses item located on the server's Configurations Menu, as shown in the picture below

Once this is done, information about Digifort's present licensing state will appear at the right as shown in the picture below

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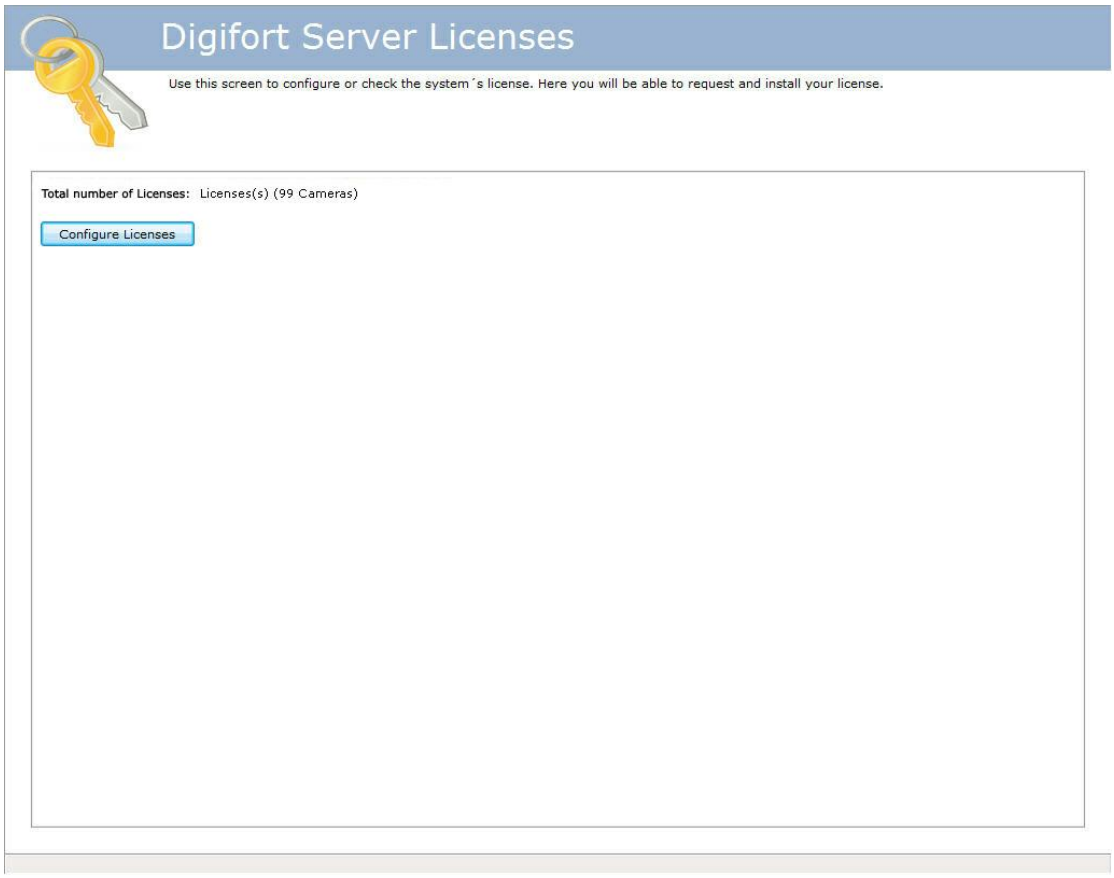
Digifort Server Licenses
Use this screen to configure or check the system´s license. Here you will be able to request and install your license.
Total number of Licenses: Licenses(s) (99 Cameras)
Configure Licenses

We can take the following information from this screen:

- **Total of licenses**: Number of licenses installed in the server, followed by the number of cameras with recording support, and the number of alarm devices with surveillance support.
- **Base license**: The name of the company to which this software is licensed appears in this field.

To configure the server's licenses, click on the **Configure Licences** button. This action will result in execution of the Licences Administrator, as shown in the picture below:

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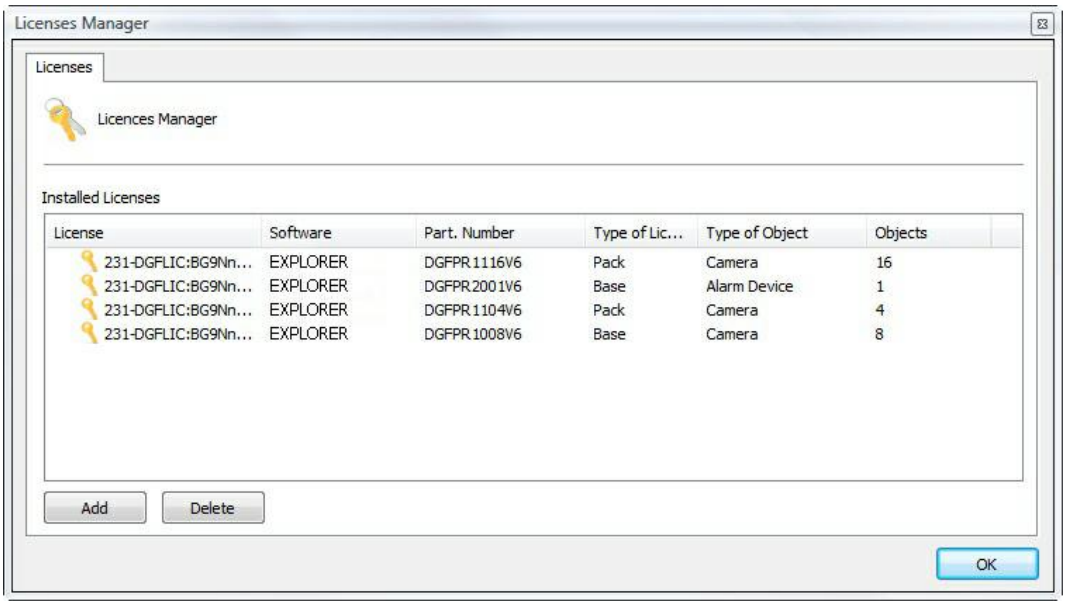

In this screen, all of the licenses installed in the server are displayed. To add a license, click on the button **Add** and to remove a license, select the desired license and click on the **Remove** Button.

At the end of the configuration, click on **OK** to close the screen.

Observation

If the base license is removed, the pack licenses will not be loaded and will disappear automatically from the screen. The pack licenses can only be loaded if the base license is installed.

4.1.1 How to add a license

To add a license, click on the **Add** button in the License Administrator. The screen for adding licenses will be displayed as shown in the picture below:

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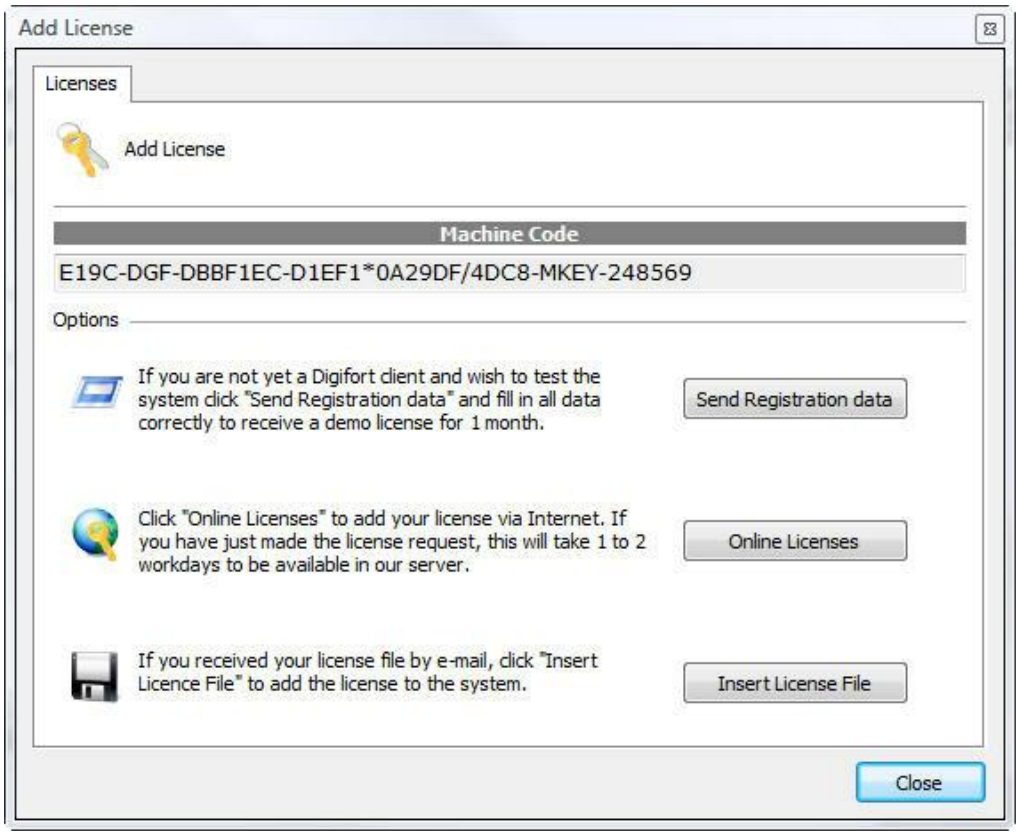
Add License
Licenses
Add License
Machine Code
E19C-DGF-DBBF1EC-D1EF1*0A29DF/4DC8-MKEY-248569
Options
If you are not yet a Digifort client and wish to test the system click "Send Registration data" and fill in all data correctly to receive a demo license for 1 month.
Send Registration data
Click "Online Licenses" to add your license via Internet. If you have just made the license request, this will take 1 to 2 workdays to be available in our server.
Online Licenses
If you received your license file by e-mail, click "Insert Licence File" to add the license to the system.
Insert License File
Close

4.1.2 How to send data for registration

The first phase in licensing Digifort is the sending of data for registration. This process consists of filling out the user's data which will be sent together with the counter password of the server to the Licensing Center.

With this data at hand, the Licensing Center will generate the requested licenses and a confirmation will be sent to the supplied e-mail address.

To start the process of sending registration data, click on **Send data for Registration**. This action will open a form to be filled out with the client's data, as shown in the picture below:

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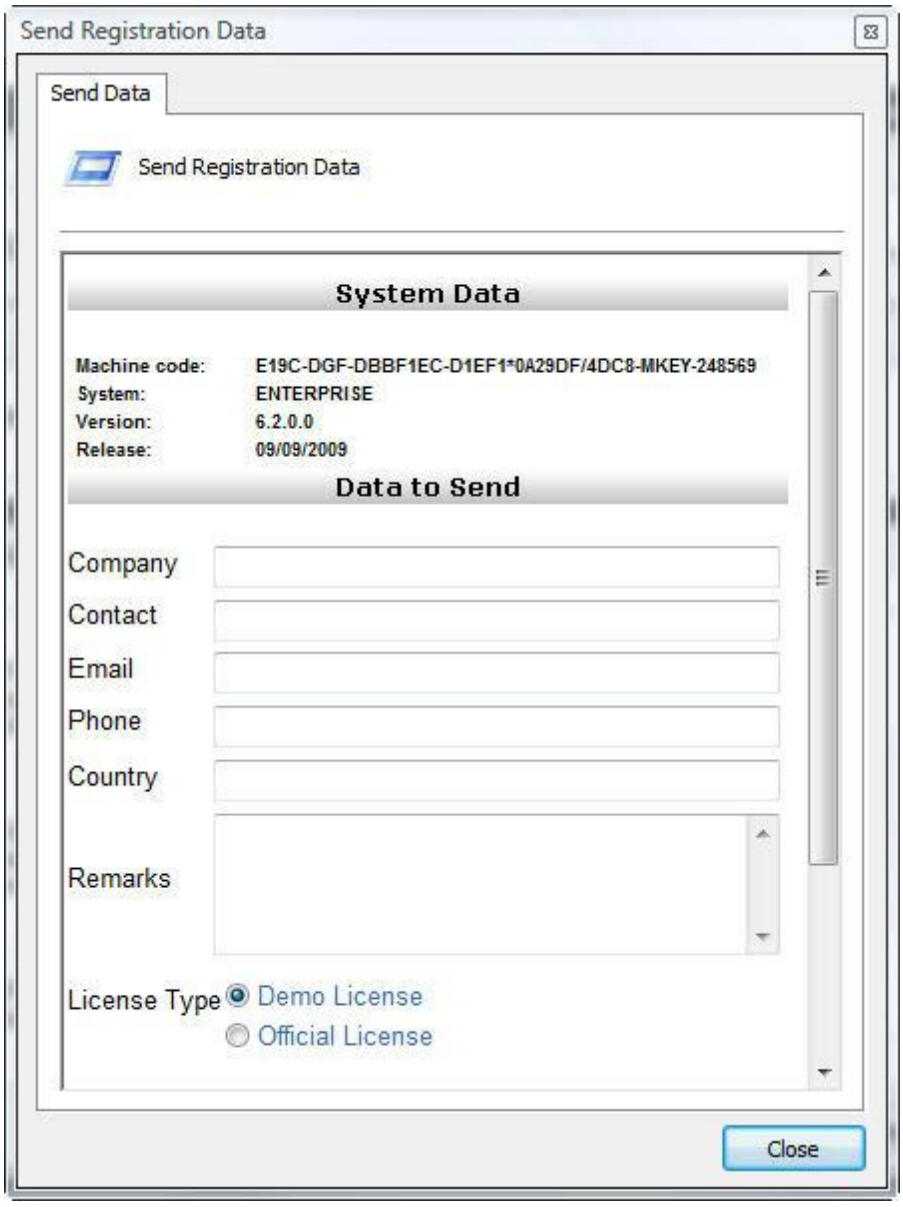

After correctly filling in the fields, click on the **Send** button. Your license will be generated in at most two weekdays. When your license is finished, you will receive a confirmation letter by e-mail with all of the instructions for installing the license.

These instructions are also described in the following pages of this manual.

4.1.3 How to install licenses via Online Licenses

Licensing via Online Licenses is the safest and most practical way to license Digifort.

After receiving the license confirmation e-mail, click on the **Online Licenses**

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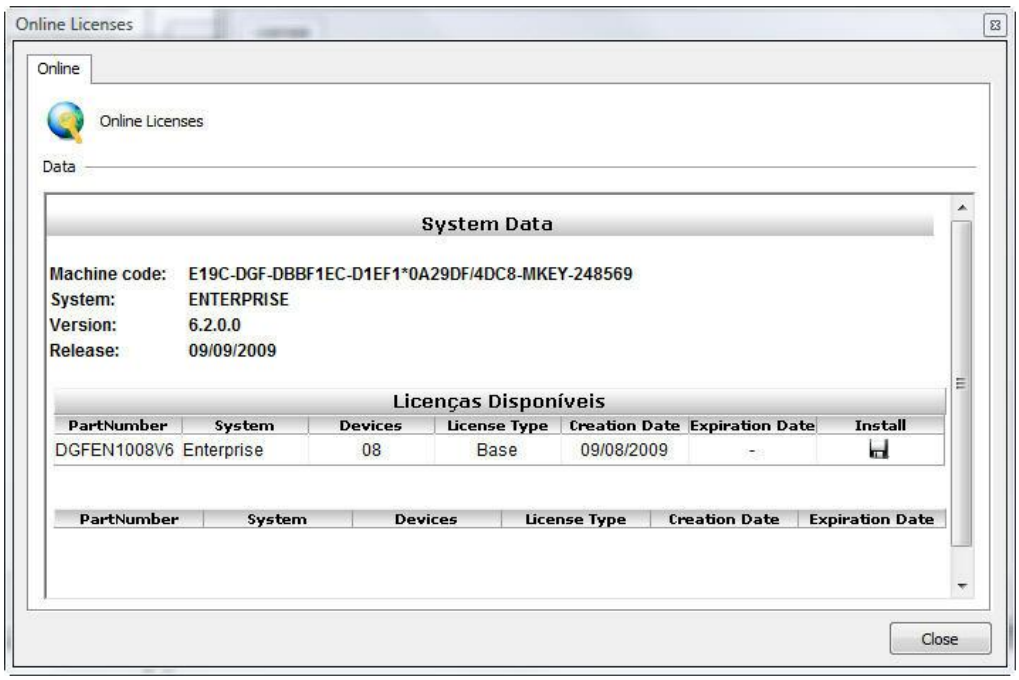
button. A window will be opened listing all of the available licenses for your server, as shown in the picture below:



To install the licences, locate the desired license and then click on the icon in the Install column. In the case of installation of official licenses, install the base license first, then all of the pack licenses. And in the case of demonstration license installation, install it normally.

After installation of the licenses, click on the **Close** button.

4.1.4 How to install licenses via license files

In case your server has no access to Internet, you must use licensing via license files. To carry out this process, copy the counter password of your server and send it via e-mail to Digifort. Your license will be generated using this counter password. Soon afterwards, the license files will be sent to your e-mail address.

To install the license files in the Digifort Server, copy them to the server or to some network unit that it has access to and click on Insert License File. A window should open requesting the location of the license files.
Locate the files and open first the base license file and afterwards all of the pack license files.

Observation

Some errors can occur using this licensing method. This is due to the fact that the licensing process is being carried out by means outside of the realm of Digifort. The most common errors are: sending of an incorrect counter password and corruption of the license files sent by e-mail. For this reason, try to use the Online Licensing

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Observation

method.

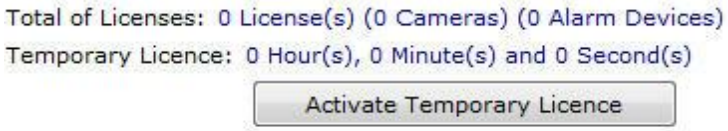
4.1.5 Enabling a temporary license

The temporary license feature was created to enable the software demo. Once the temporary license is activated, the software will work for two hours.

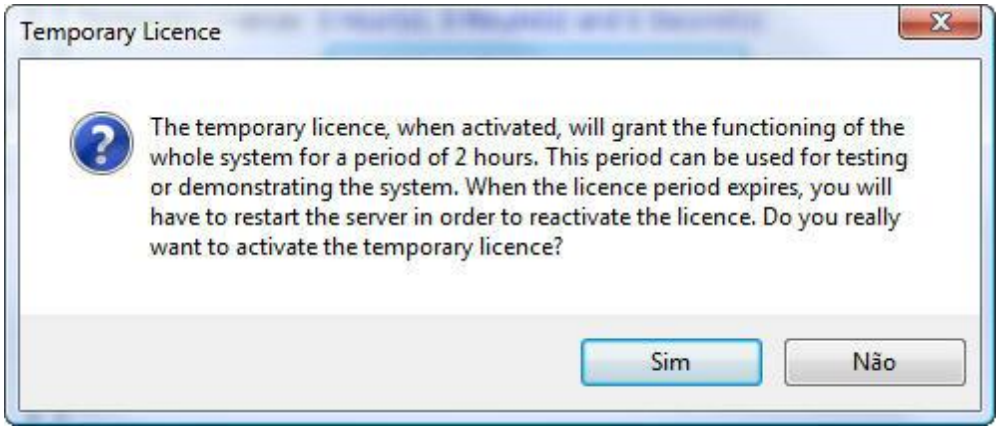
To activate the temporary license click on the Demo License button as shown in the Picture below:

Total number of Licenses: 0 License(s) (0 Cameras) (0 Alarm Devices)
Temporary License: 0 Hour(s), 0 Minute(s) and 0 Second(s)
Configure Licenses
Demo license

Then click on Activate temporary license as shown in the picture below:


Total of Licenses: 0 License(s) (0 Cameras) (0 Alarm Devices)
Temporary Licence: 0 Hour(s), 0 Minute(s) and 0 Second(s)
Activate Temporary Licence

You will see the window shown below; click on yes to install the license.


Temporary Licence
The temporary licence, when activated, will grant the functioning of the whole system for a period of 2 hours. This period can be used for testing or demonstrating the system. When the licence period expires, you will have to restart the server in order to reactivate the licence. Do you really want to activate the temporary licence?
Sim
Não

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Chapter V

5 Registering Digifort

After licensing Digifort, it is necessary to register it. The registration of Digifort will guarantee that you receive notifications of product updates, news and special offers. It will also guarantee that you receive technical support and installation support, as well as additional benefits.

If you decide not to register, you will not be eligible for updates, upgrades, technical support or installation support.

Registering Digifort, you will receive a registration code which, for security reasons, will also be stored in our licensing center. If you use a hard key and it becomes necessary to format the Server or reinstall Digifort, out licensing Center will identify your server and will automatically register it again.

5.1 How to register Digifort

After inserting your usage license, the software's registration window will automatically be displayed, as shown in the figure below. To understand how to install licenses in Digifort, see Licensing Digifort.

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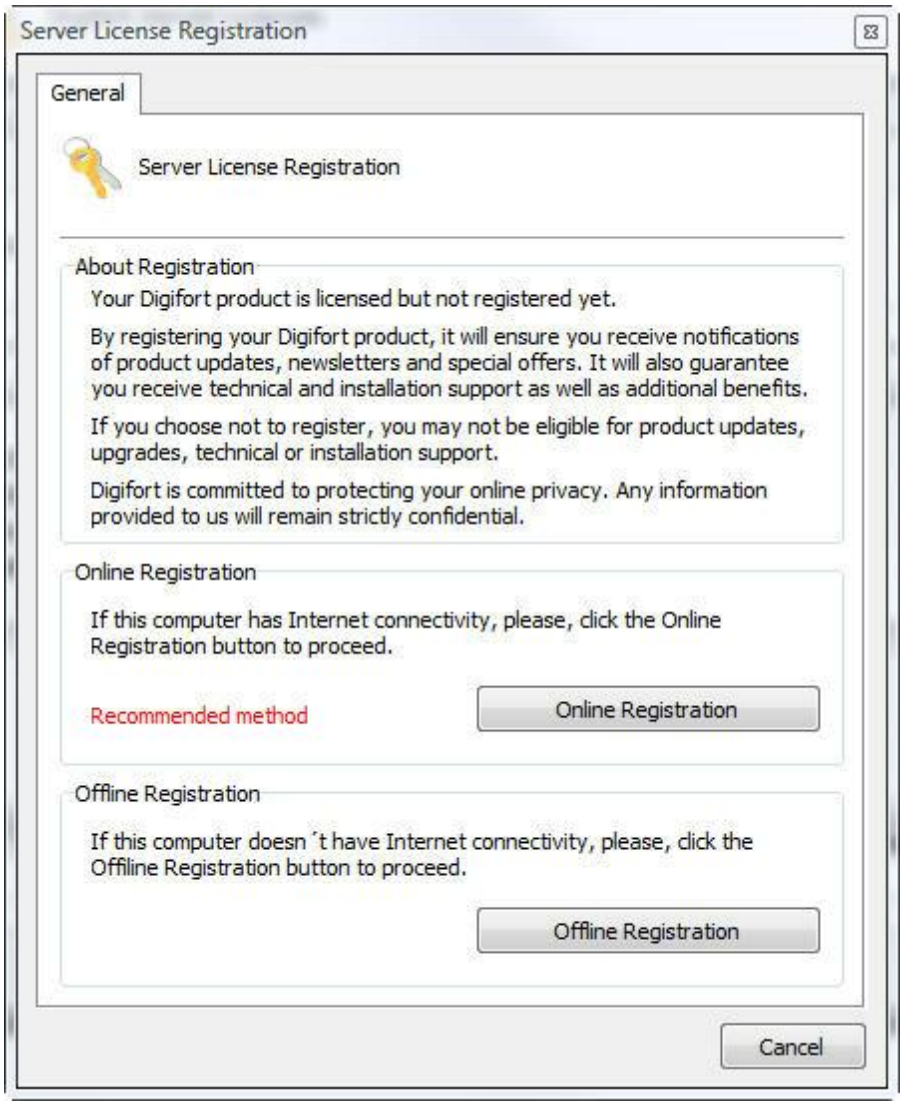
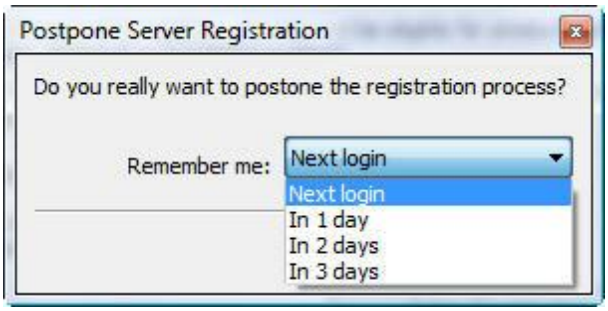

Server License Registration
General
Server License Registration
About Registration
Your Digifort product is licensed but not registered yet.
By registering your Digifort product, it will ensure you receive notifications of product updates, newsletters and special offers. It will also guarantee you receive technical and installation support as well as additional benefits.
If you choose not to register, you may not be eligible for product updates, upgrades, technical or installation support.
Digifort is committed to protecting your online privacy. Any information provided to us will remain strictly confidential.
Online Registration
If this computer has Internet connectivity, please, click the Online Registration button to proceed.
Recommended method
Online Registration
Offline Registration
If this computer doesn´t have Internet connectivity, please, click the Offline Registration button to proceed.
Offline Registration
Cancel

Registration of Digifort can be done in two ways, Online and Offline. The Online method is recommended, but can be used only when the computer which is executing the Administration Client is connected to Internet. The Offline method must be used when the computer has no access to Internet.

If you wish to register later, close this window and select the desired option, as shown below:



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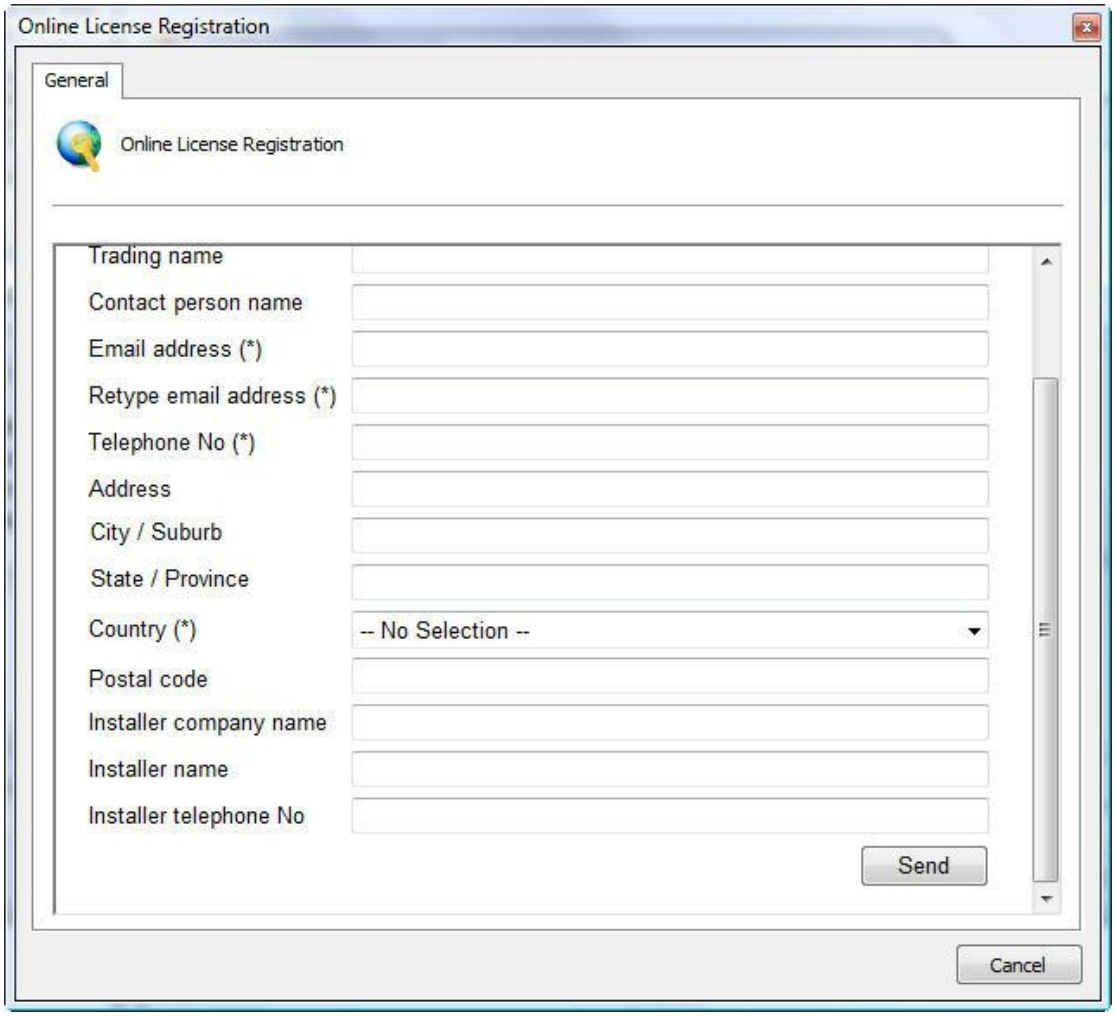
5.2 Registering Digifort Online

To register Digifort online, click on the Register Online Button. A screen will be displayed with the form to be filled out, as shown in the figure below:



Fill in all of the fields and click on Send. A registration confirmation screen will be displayed, together with your registration code, as shown in the figure below

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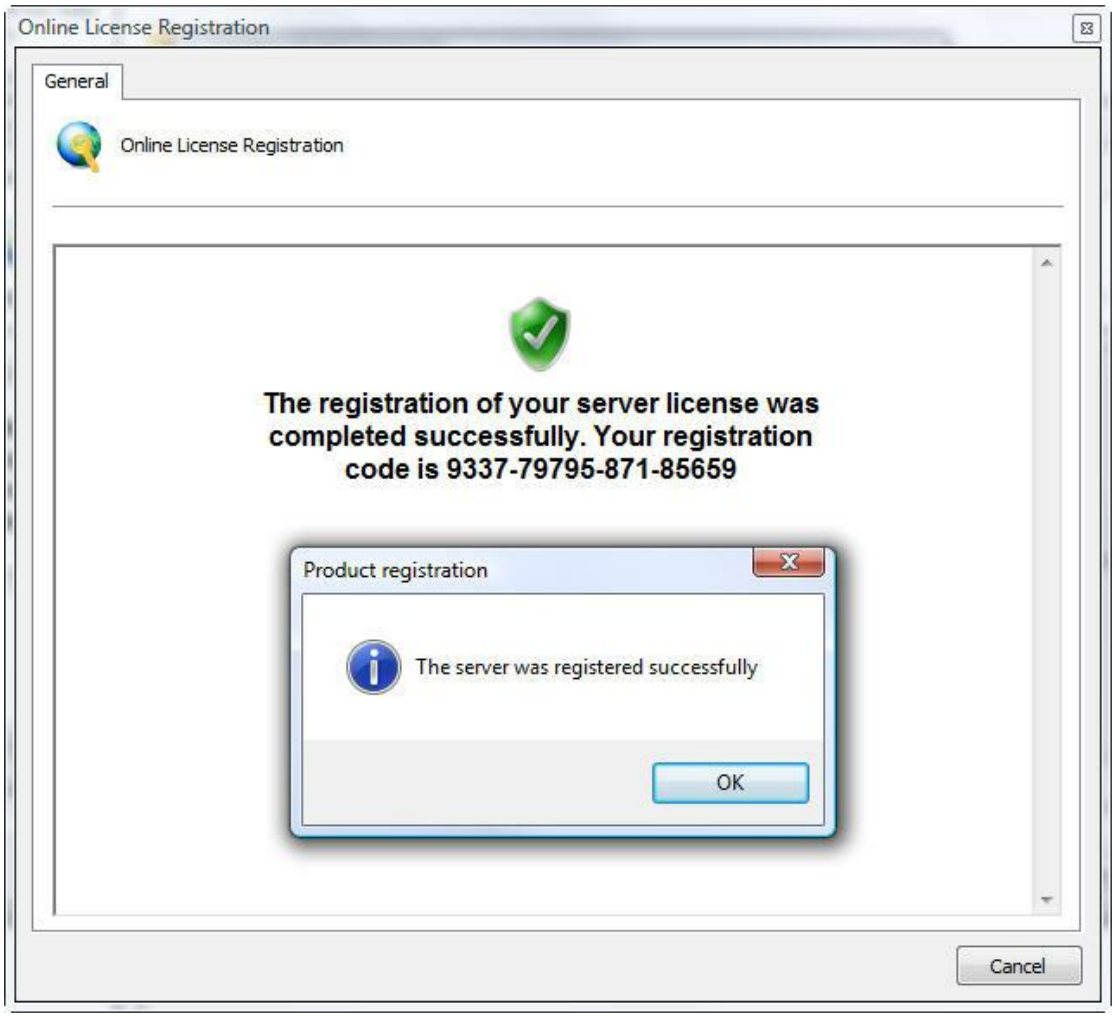

5.3 Registering Digifort Offline

To register Digifort offline, click on the **Register Offline** button. A screen will be displayed with instructions on how to register Digifort. Follow the instructions shown in the screen and click on **Register**.

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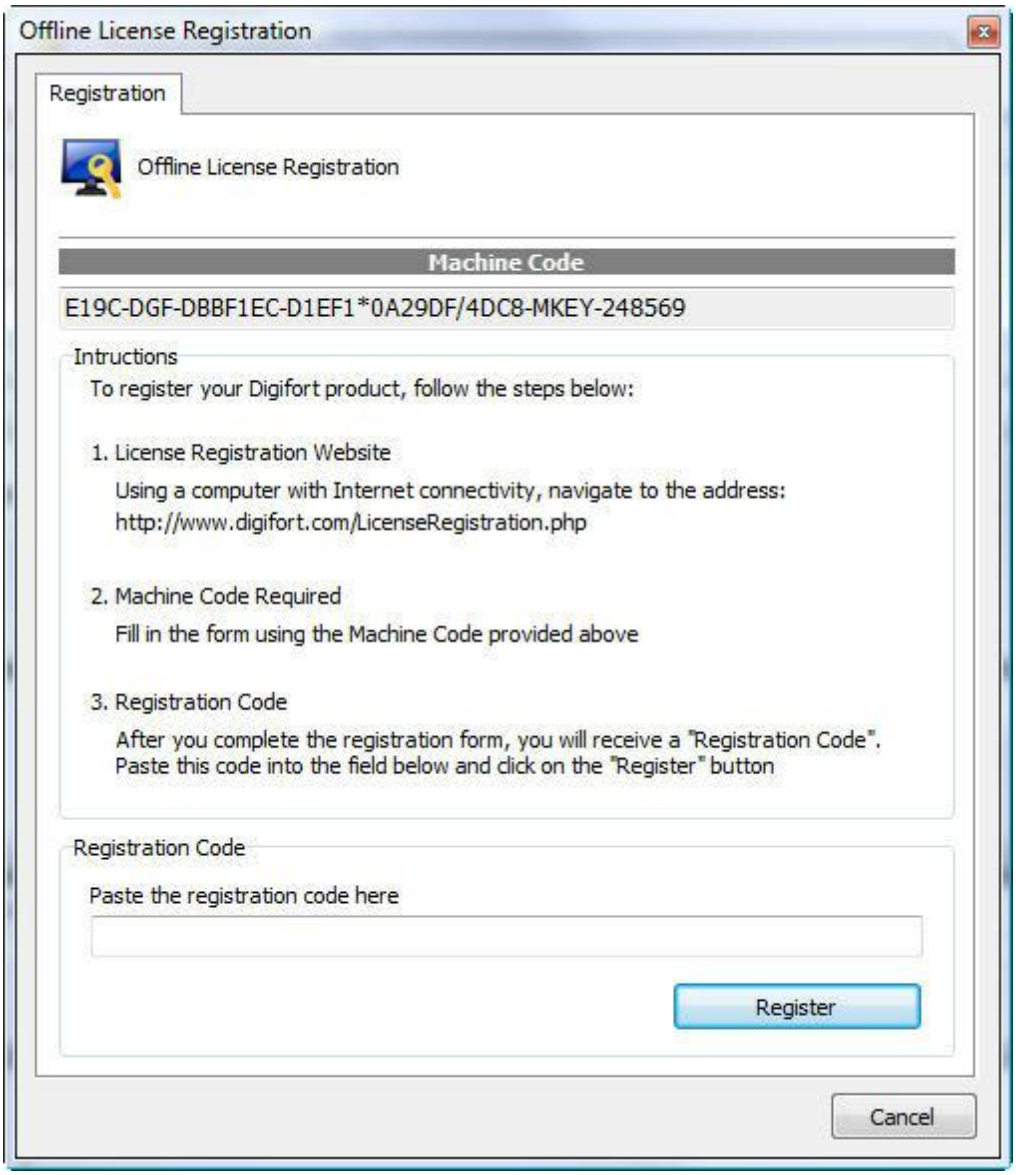
Offline License Registration
Registration
Offline License Registration
Machine Code
E19C-DGF-DBBF1EC-D1EF1*0A29DF/4DC8-MKEY-248569
Intructions
To register your Digifort product, follow the steps below:
1. License Registration Website
Using a computer with Internet connectivity, navigate to the address:
http://www.digifort.com/LicenseRegistration.php
2. Machine Code Required
Fill in the form using the Machine Code provided above
3. Registration Code
After you complete the registration form, you will receive a "Registration Code".
Paste this code into the field below and click on the "Register" button
Registration Code
Paste the registration code here
Register
Cancel

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Chapter VI

6 Recording Server

This chapter is dedicated to the Recording Server of the Digifort System. It is in this module that the cameras are registered and their functioning is monitored.

The Recording Server is divided into two modules, the Camera module where the cameras are registered, and the Status module where the functioning of the cameras is monitored.

The Digifort System works with the main brands of digital cameras in the market and accepts analogical cameras as long as they are connected by way of a video-server device. These cameras can be located at the same site where the server is or can be remotely connected by way of some network connection. The main attributes of the configuration of the cameras, such as image resolution, number of frames per second and visualization rights are configured in the Digifort System and automatically applied to the cameras, regardless of location and without stopping the recording of the other cameras.

The Register of Cameras is one of the most critical parts of the system, since a bad configuration can lead to the malfunctioning of the system. Therefore, careful planning must be done beforehand, collecting data such as the number of cameras, desired number of frames per second, days of storage, available disk space, etc.

6.1 How to add a camera

To access the Register of Cameras, locate the Recording Server icon and then click on the Cameras icon, as shown in the picture below:

Once this is done the register of cameras will be executed, as shown in the picture below:

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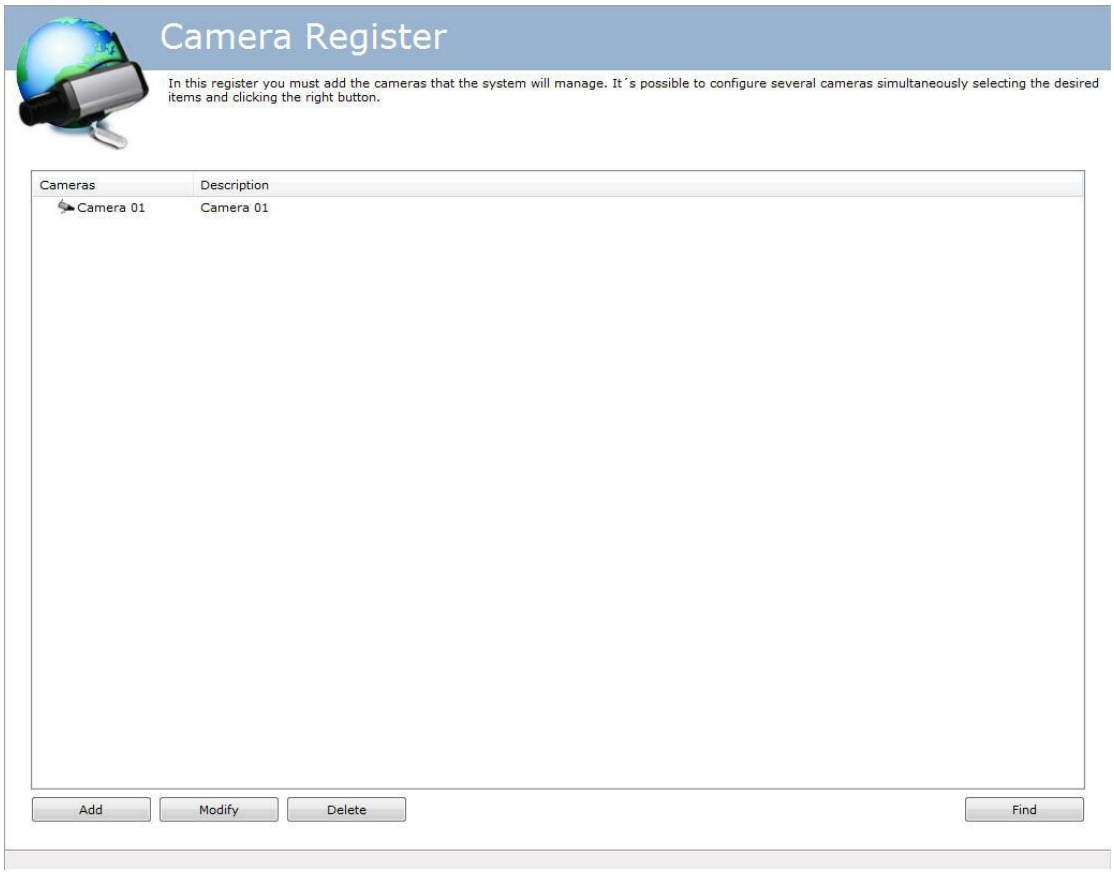
Camera Register
In this register you must add the cameras that the system will manage. It´s possible to configure several cameras simultaneously selecting the desired items and clicking the right button.
Cameras
Description
Camera 01
Camera 01
Add
Modify
Delete
Find

To add a camera, click on **Add**. To modify or remove a camera, select the desired camera and click on the corresponding button.

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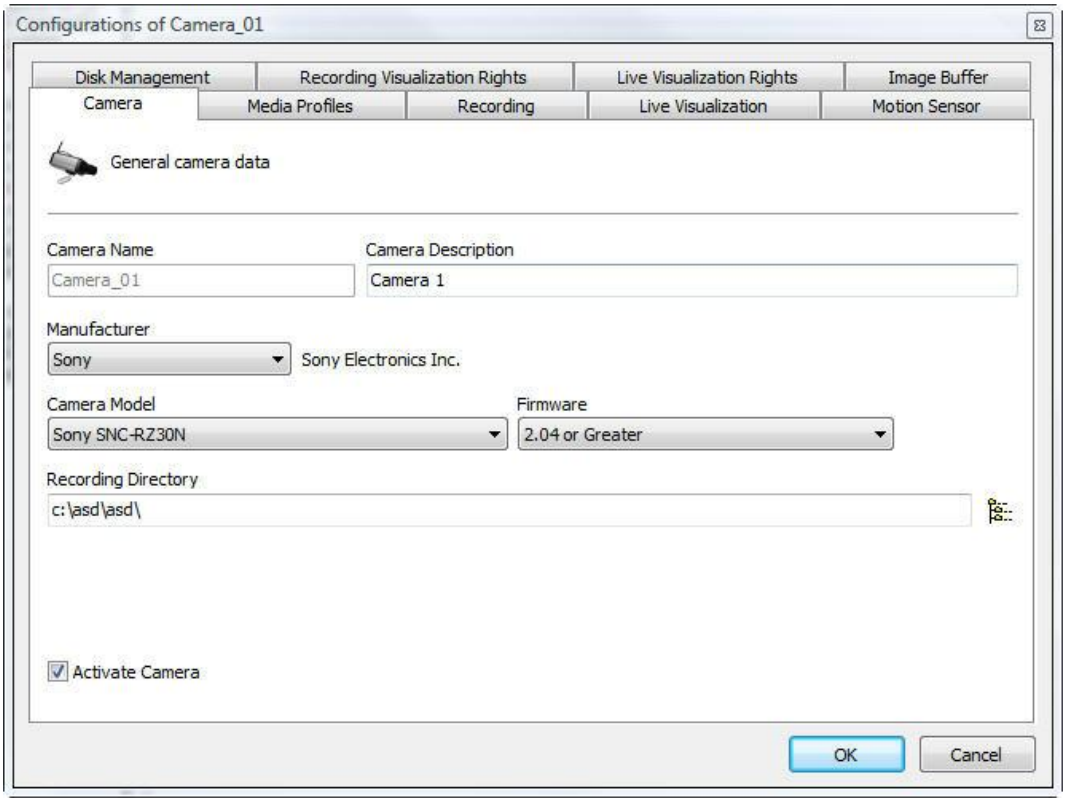
6.1.1 Camera data



- **Camera Name**: Enter a name for the camera. This name will be used as an internal reference of the system. Therefore, once saved it cannot be modified.
- **Description of the camera**: Enter a short description for the camera to aid in its identification. In the Surveillance Client it is this description that will help to identify each camera.
- **Manufacturer:** Select the manufacturer of the camera to be inserted..
- **Model of the camera:** Select the model of the camera to be inserted.
- **Firmware**: Select the version of the firmware of the camera to be inserted. As default, upon selecting the model of the camera, the last version of the firmware is automatically selected. In most cases, the choice of the most recent firmware allows the camera to work perfectly in all of its modes.
- **Video port**: If the device to be inserted it a video-server, select the number of the port on which the camera is found. This field will only visible for video-servers with more than one port.
- **Recording directory** Digifort allows camera recording to be distributed among several disks. For this purpose, select the recording directory for images of the camera to be inserted. It's possible to record in network units, that is, in the disks of

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other computers in the network. To learn how to use this feature, see Network Units.

- **Activate camera**: Indicates whether the system must record the images received from the camera.

Attention

Digifort is responsible for administrating the structure of directories used in camera recording. Therefore, no file of its database should be excluded manually, and the camera recording directory may not be created by any means other than Digifort such as, for example, Windows Explorer.

6.1.2 Media profiles

A media profile consists of a set or individual parameters of each camera such as image resolution, frames per second and image quality, that are associated with Recording and Live Visualization.
For better understanding, let's take the following situation: A recording profile could be created, that will be associated to the camera recording event. In this profile we could define that we want to record five frames per second, with a resolution of 320x240 and with high image compression. A visualization profile could also be created, that will be associated to visualization of the camera. In this profile we could define that we want to visualize the camera at ten frames per second with a resolution of 640x480 and low image compression.

As default, upon registering a new camera, two pre-defined media profiles are created, one for recording and one for visualization. The pre-configured parameters of each profile are only those parameters in common to all devices. The Media Profiles of most cameras and video-servers have parameters in common and individual parameters of each piece of equipment. The common parameters are:

- **Video compression**: The video compression to be used in recording images in disk. At present, Digifort supports the Motion JPEG and Wavelet formats..

- **Image resolution**: The image resolution that will be used in the profile. Upon selecting the model of the camera, this resolution list will automatically display only the resolutions supported by that camera. A very high image resolution will use up much disk space and bandwidth in your network, but the image will have a superior quality in which we will be able to recognize more detail in the image, such as, for example, the face of a person. A very low image resolution will use up little disk space and bandwidth in your network, but the image will have an inferior quality, giving few details. This parameter should be well configured according to your needs. Digifort has a calculator for disk space use that will help you to better configure the image resolution and frames per second. To learn how to use the Digifort calculator, see Calculator for disk space usage.

- **Image quality**: The images coming from the cameras go through a compression process. The higher the image compression level, the less quality the image will have, and the lower the image compression level, the more quality the image will have. Digifort offers five quality levels ranging from High (low compression) and

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Low (high compression). After various laboratory tests we recommend the Medium quality, as it offers an excellent image quality and low network traffic and low disk space usage.

- **Frames per second**: The number of frames per second to be recorded. A greater frames-per-second rate will use up more bandwidth in your network and more disk space, but will offer smoother movement. A lower rate of frames per second will use up less bandwidth in your network and less disk space, but the movement will be jerkier. It has been scientifically proven that at three to seven frames per second, it is possible to recognize all movements of a person. In some cases, it might not be possible for the camera to send the configured number of frames per second, especially at high frames-per-second rates. This is due to various factors, such as the bad functioning of the internal network, the number of connections made to the camera and the processing power of the camera.

As parameters specific to an individual piece of equipment, we can cite insertion of text into the image, image rotation, color levels, etc.

Some cameras may not support the adjustment of common parameters, such as, for example, the frame rate and the image quality. In these cases, adjustments must be made directly in the camera using its own interface.

6.1.2.1 How the Media Profiles save network bandwidth

The media profiles also help to save network bandwidth. To explain this concept, first we will define two media profiles, described below:

"Recording" Media Profile	
Parameter	**Value**
Video compression	Motion JPEG
Image resolution	640x480
Image quality	Medium
Frame rate	4 fps

"Visualization" Media Profile	
Parameter	**Value**
Video compression	Motion JPEG
Image resolution	640x480
Image quality	Média
Frame rate	30 fps

Obs: Digifort operates with any resolution supplied by the camera, whether it is low or high resolution (HD) and with any commercially available compression formats (Motion JPEG, MPEG4 and H264).

As we can see in the two examples of Media Profiles, all of the parameters of the "Recording" profile are the same as those of the "Visualization" profile, except the Frame rate. With this type of configuration, where only the frame rate is different, Digifort save bandwidth in this way: Let's suppose that the server is recording the images generated normally by the
camera with the associated "Recording" profile. In this case, it will be receiving only four frames per second. In a certain moment, the user wants to visualize this same camera in the Surveillance Client at a frame rate of 30 frames per second. At this moment, Digifort recognizes that the configurations are the same, with only the

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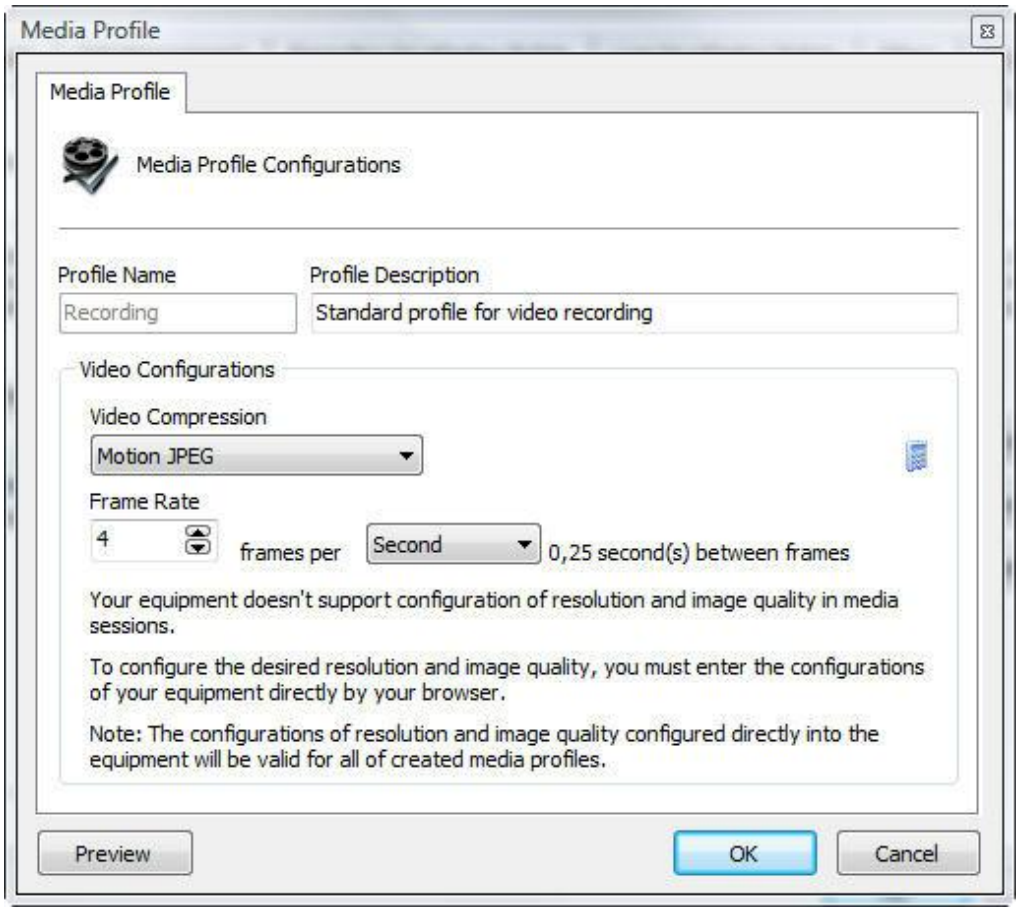
visualization frame rate being higher than the recording frame rate. Instead of the server making a new connection to the camera to receive the desired 30 frames per second, it closes the present connection and opens a new connection receiving the 30 frames per second, applying a frames speed filter on the recording profile, limiting its velocity to 4 frames per second. This way, only one connection is maintained with the camera receiving only 30 frames per second instead of two connections receiving a total of 34 frames per second.

6.1.2.1.1 How to add Media Profiles

To add a media profile, click on **Add**, and the media profile adding screen will be displayed as shown in the picture below:


Media Profile
Media Profile
Media Profile Configurations
Profile Name
Recording
Profile Description
Standard profile for video recording
Video Configurations
Video Compression
Motion JPEG
Frame Rate
4
frames per
Second
0,25 second(s) between frames
Your equipment doesn't support configuration of resolution and image quality in media sessions.
To configure the desired resolution and image quality, you must enter the configurations of your equipment directly by your browser.
Note: The configurations of resolution and image quality configured directly into the equipment will be valid for all of created media profiles.
Preview
OK
Cancel

It's important to point out that this screen can vary from camera to camera, since each one has its own set of configuration parameters.

In the example above, the selected camera doesn't support adjustment of image resolution and quality.

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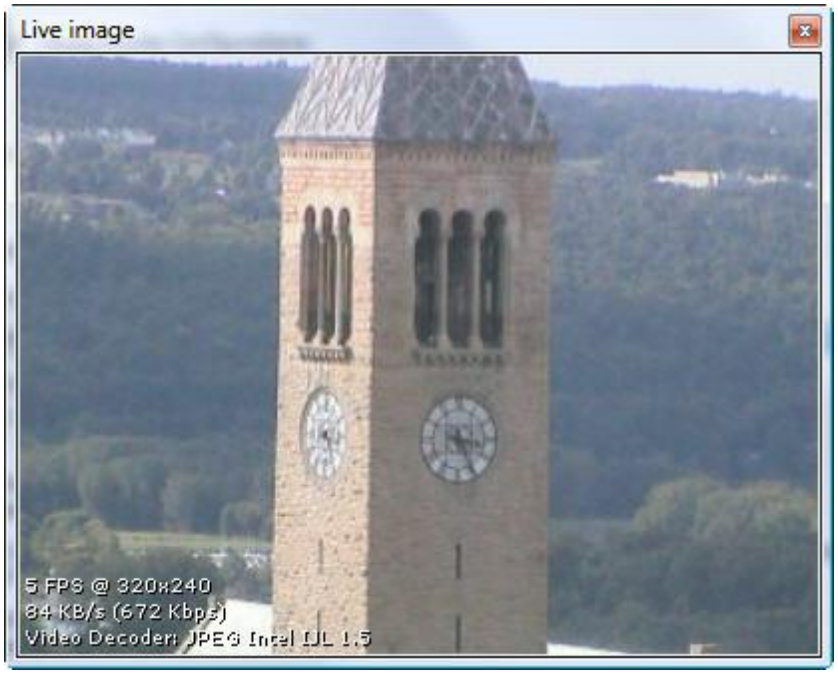
6.1.2.1.2 How to visualize the functioning of the configured media profile

To visualize the results of the configurations of the parameters of the media profile being edited, click on the Preview button, opening a screen with the live image of the camera, as shown in the picture below:

This function will only work if the camera's connection address was previously informed. To learn now to configure this parameter, see How to configure the recording of the camera.



In this screen, the following configurations are informed:

- **Received frames per second:** Informs the number of frames per second received.
- **Image size**: Informs the size of the received image in KB/s and in Kbps. These values help in the dimensioning of the disk space and network bandwidth that this camera occupies..
- **Decoder codec**: The codec used for decoding the image. Digifort uses various decoding codecs. When the camera is added, the codec that has the best performance based on the received image is automatically identified.

Observation

All information contained in the image is updated every second.

6.1.2.1.3 Calculator for disk space usage

Digifort has a very useful tool to aid in the dimensioning of disk space to be reserved for

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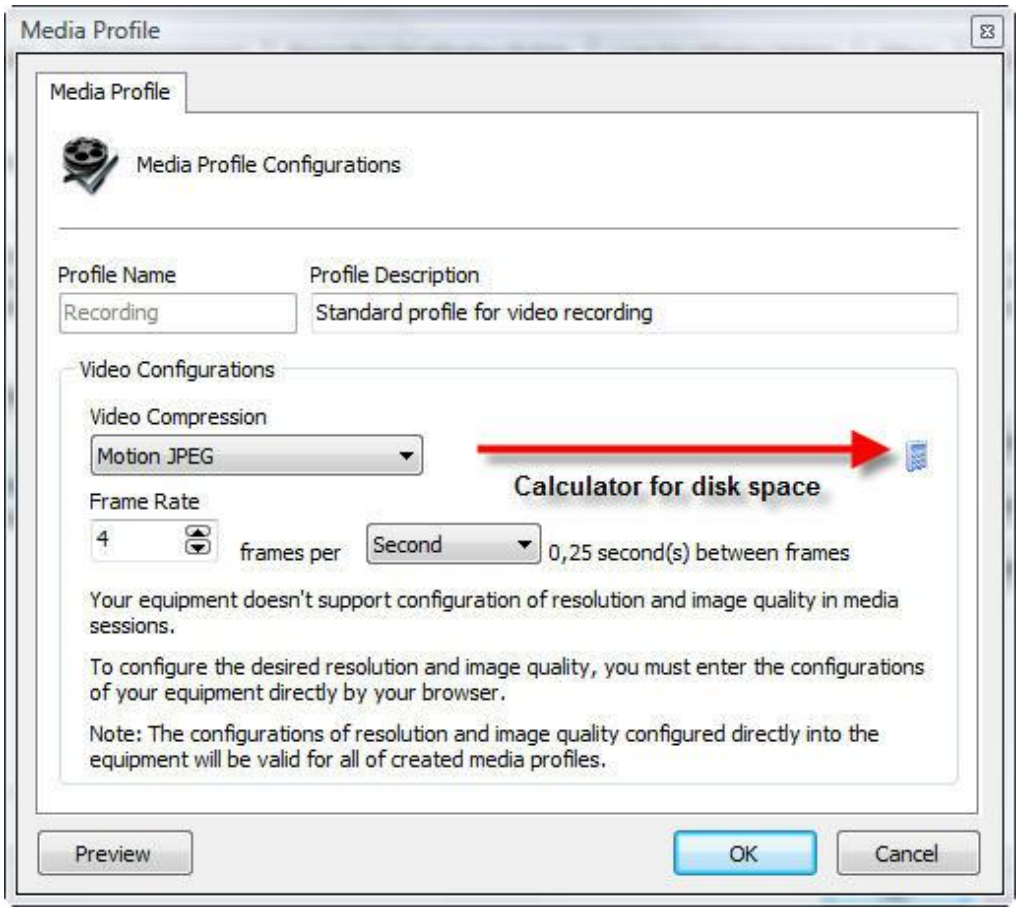
each camera: the disk space usage calculator. To access this feature, click on the button identified by a “calculator”, on the media profile configuration screen, as shown in the picture below:

This function will only work if the camera’s connection address was previously informed. To learn how to configure this parameter, see How to configure the recording of the camera.


Media Profile
Media Profile
Media Profile Configurations
Profile Name
Recording
Profile Description
Standard profile for video recording
Video Configurations
Video Compression
Motion JPEG
Calculator for disk space
Frame Rate
4
frames per
Second
0,25 second(s) between frames
Your equipment doesn't support configuration of resolution and image quality in media sessions.
To configure the desired resolution and image quality, you must enter the configurations of your equipment directly by your browser.
Note: The configurations of resolution and image quality configured directly into the equipment will be valid for all of created media profiles.
Preview
OK
Cancel

Clicking on this button, the disk space calculator will be executed as shown in the picture below:

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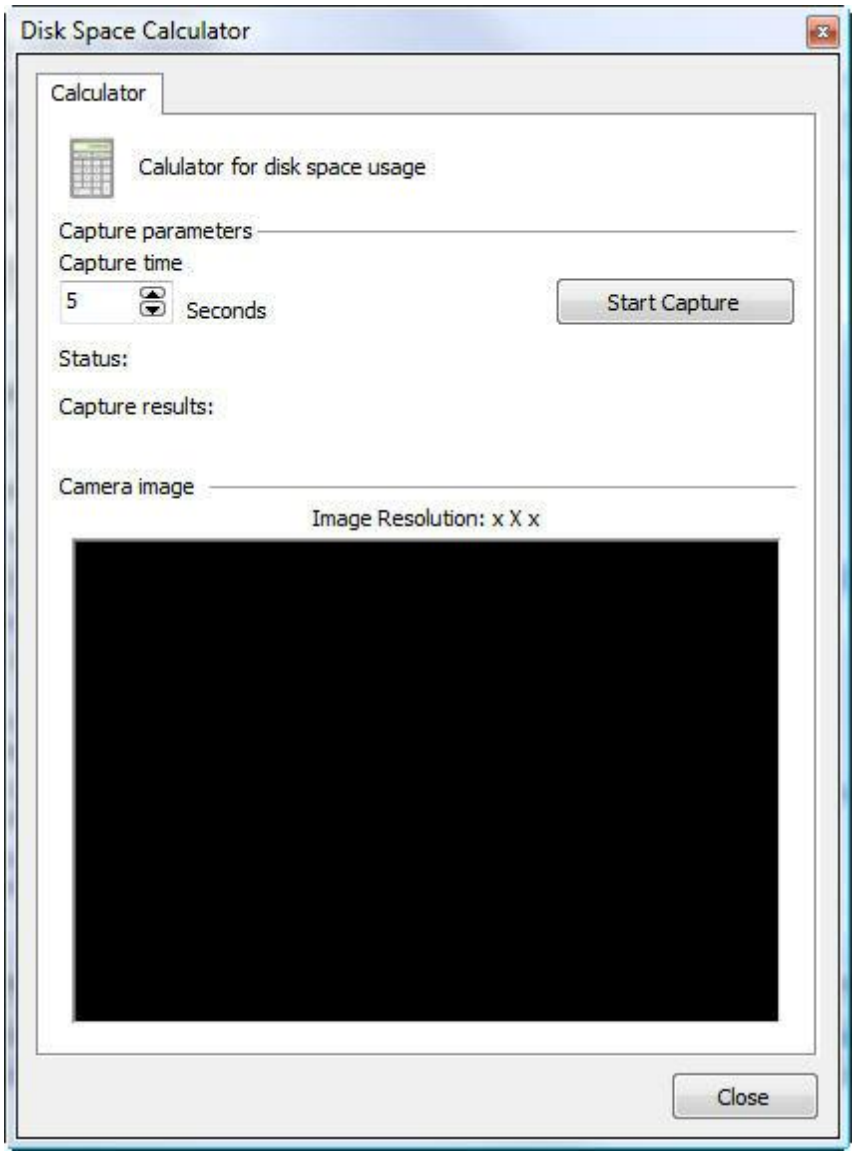

To calculate the disk space necessary for the recording of the camera, the calculator captures an original temporary video from the camera with the parameters of image quality and resolution configured in the media profile being edited and the capture time informed in this screen. Based on the video received, a calculation in made to determine the size of the disk space necessary for storing the images generated by this camera a given number of days and the expected motion detection rate.

To start the process of disk space calculation, inform the capture time value and then click on Start Capture.

Once this is done, the video is captured and analyzed, displaying the screen below:

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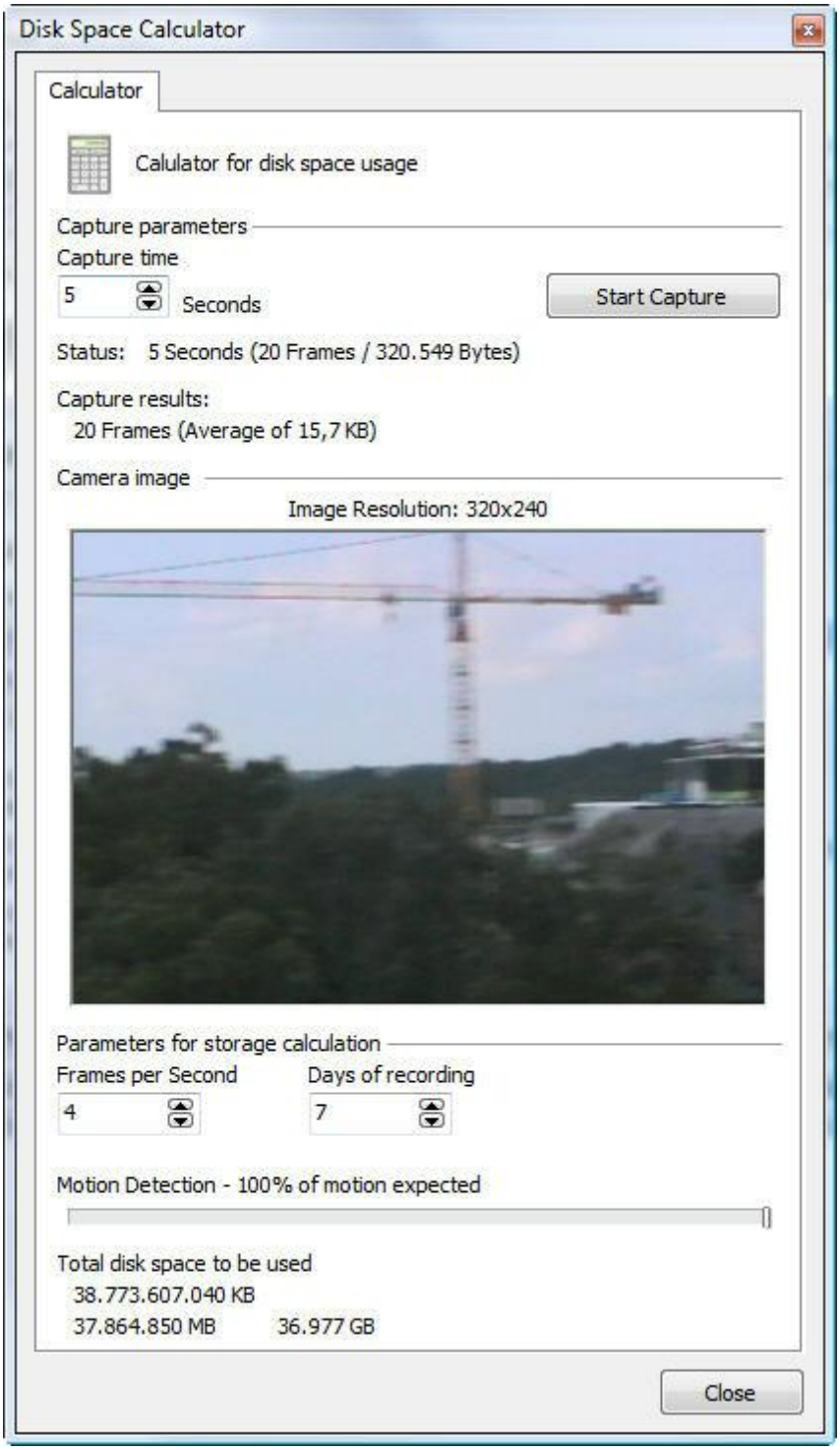

After the end of the analysis of the captured video, the calculator fills the maximum frames-per-second value that the camera is able to send, that is, if the media profile was configured for recording at 30 frames per second, but the camera is only able to send 12 frames, this value will be 12. Modify the values of frames per second, days of recording and estimation of the motion detection to get an estimation of the

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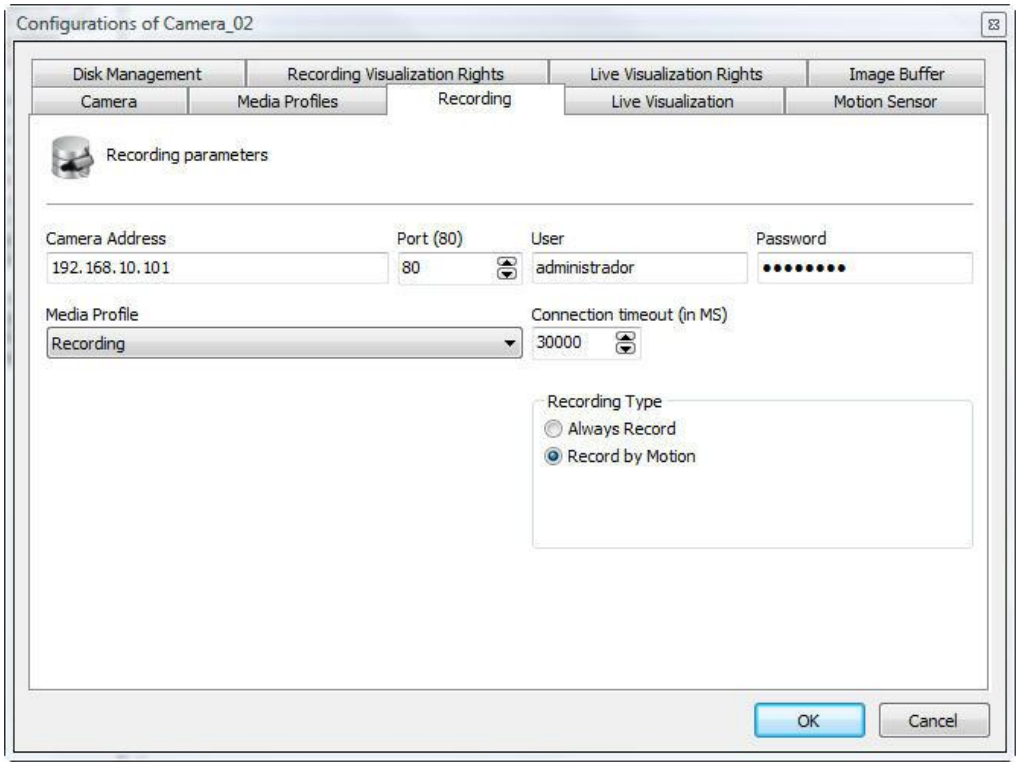
occupation of disk space to be used by the camera. Below are descriptions of how each parameter of the space calculator works.

- **Days of recording:** Informs the number of days to be stored for this camera. The greater this value is, the more disk space is used.
- **Frames per second:** Informs the number of frames per second to be used in recording of the camera.
- **Motion detection:** Informs the percentage of motion expected at the location of the camera in a day. For example, if the normal operation of a camera doesn't detect motion at night, then we slide this control, adjusting its value to 50%.
- **Total of disk to be used:** Informs the disk space necessary for storing the images generated by the camera with the parameters configured in the media profile being edited, the number of storage days and the percentage of motion configured.
- **Calculate size:** Click on this button to recalculate the disk space necessary for storage of the images of this camera with a new image.

6.1.3 How to configure the recording of the camera

After registering the media profiles to be used, it's necessary to associate them to the recordings and visualization events of the camera.

To access this configuration, click on the Recording tab, as shown in the picture below:



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6.1.3.1 Camera address

IP or DNS address of the camera. The IP address to be used must already be internally configured in the camera.

6.1.3.2 Port

The port for communication with the camera. Most cameras in the market use port 80 for connection. The port to be used must already be internally configured in the camera.

6.1.3.3 User and Password

Informs the user who Digifort will use to carry out the authentication of the camera. Consult the manual of your camera to find the standard user and how to add more users.

Informs the password that Digifort will use to carry out the authentication of the camera. Consult the manual of your camera to find the standard password and how to modify it.

Important: it's recommended that you inform the user and the password of the camera in the correct fields, as some camera features depend on this information for previous authentication and execution of the requested command. The user to be supplied must be the administrator user of the camera. To get this information, consult the user manual of your camera.

6.1.3.4 Connection timeout (in MS)

This parameter is used by the system when the connection with the camera is somehow lost. Then, every X milliseconds the system will try to re-establish the connection, where X is the specified value. To convert this value to seconds, simply divide this value by 1,000. By default, this parameter is already configured at 4000ms (4 seconds).

6.1.3.5 Type of recording

Digifort Explorer offers three types of recording: continuous recording (always record), recording by motion detection, and recording by scheduling. Continuous recording will record to disk all images received by the camera. Recording by motion detection will record images only when there is motion. Recording by scheduling permits the configuring of recording times in which the camera will always record, record by motion detection, or not record. In most cases, recording by motion detection or event is the most appropriate, as it drastically reduces disk space used. To learn more about recording by motion detection see How to configure the Motion Sensor.

6.1.3.6 Media profile

Select the media profile to be used in recording of the camera.

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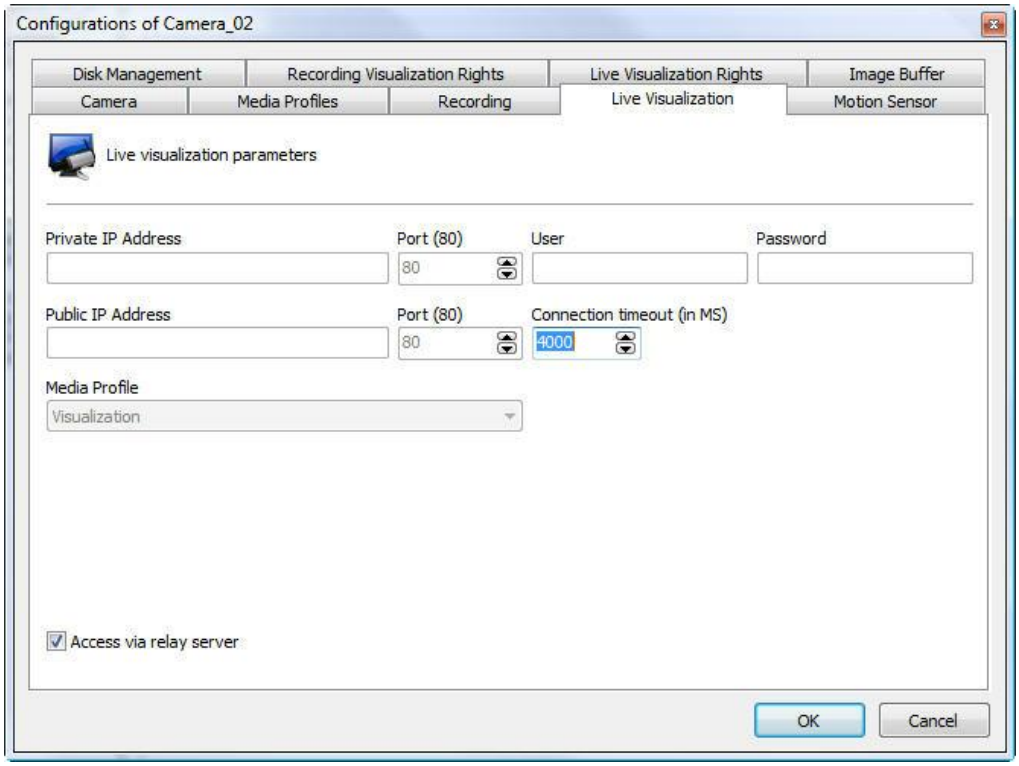
6.1.4 How to configure the visualization of the camera

After registering the media profiles to be used, it's necessary to associate them to the events of recording and visualization of the camera.

To access this configuration, click on the Visualization tab, as shown in the picture below:



The configuration carried out here will be applied to the Surveillance Client, which will use this information to capture the image from the cameras and show on the screen.

The parameters to be configured are described below.

6.1.4.1 This camera will be accessed by the client via relay server

With this option marked, the server will send the client, images that are being recorded in real time using the media profile associated in the Recording tab. With this option marked, no additional configuration is necessary.é necessária.

6.1.4.2 Private IP address

In case access to the camera via relay server is not used, inform the IP address of the camera's local network.

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6.1.4.3 Private IP port

Informs the communication port with the camera of your internal network. a porta de comunicação com a câmera de sua rede interna.

6.1.4.4 Public IP address

Digifort also offers the possibility of making a connection with the camera via external network, such as Internet, for example. Fill in the Internet IP address. For this option to work, your router must be configured to supply access to the camera externally.

6.1.4.5 Public IP port

Informs the communication port with the camera via external network. com a câmera através da rede externa.

6.1.4.6 User and Password

User: Informs the user that Digifort will use to carry out authentication on the camera. Consult the manual of your camera to identify the default user and how to add more users.

Password: Informs the password that Digifort will use to carry out authentication on the camera. Consult the manual of your camera to identify the default password and how to modify it.

Important

it's recommended that you inform the user and the password of the camera in the correct fields, as some camera features depend on this information for previous authentication and execution of the requested command. The user to be supplied must be the administrator user of the camera. To get this information, consult the user manual of your camera.

6.1.4.7 Connection timeout (in MS)

This parameter is used by the system when the connection with the camera is somehow lost. Then, every X milliseconds the system will try to re-establish the connection, where X is the specified value. To convert this value to seconds, simply divide this value by 1000. By default, this parameter is already configured at 4000ms (4 seconds).

6.1.4.8 Media profile

Select the media profile to be used for visualization of the camera. This option will only be available if this camera will be accessed by the client via relay server is unmarked.

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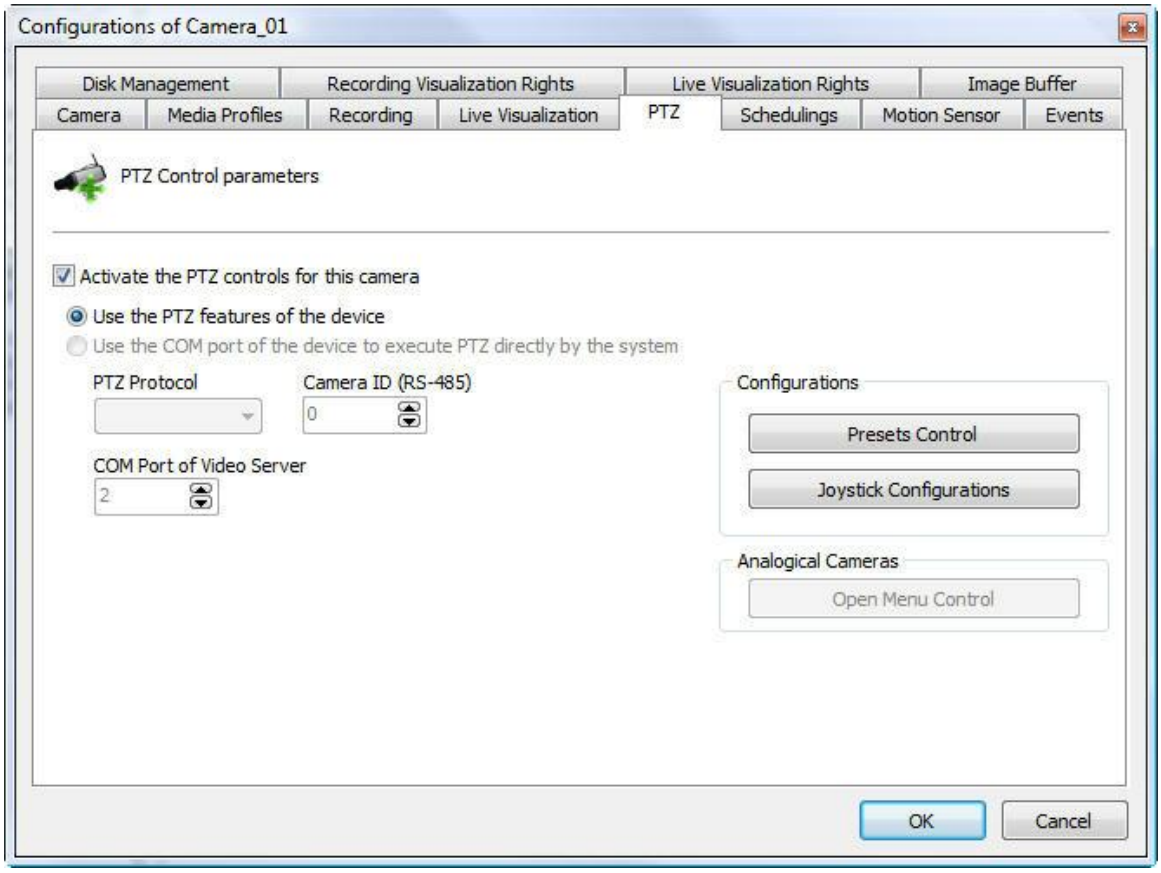
6.1.4.9 Short-cut for the camera in the client

Enter a short-cut name for the camera so that this camera can be rapidly displayed in the Surveillance Client.

6.1.5 How to configure PTZ

The PTZ configuration allows you to specify the movement parameters of movable cameras.

To access the PTZ configurations, click on the PTZ tab, as shown in the picture below:



6.1.5.1 Activate the PTZ control for this camera

Activates the PTZ controls for this camera. If this option in unmarked, movement for this camera will not be available.

6.1.5.2 Use the device's PTZ features

Mark this option only if the camera being registered is an IP camera. In this case, Digifort will send the PTZ commands directly to the camera. para a

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câmera.

6.1.5.3 Use the device's COM port for the system to carry out PTZ functions directly

Mark this option only if the camera being registered is an analogical camera converted by a video server. In this case, Digifort will send the PTZ commands to the video-server, and then passed on to the camera. para a câmera.

6.1.5.4 Presets Control button

Opens the presets register, allowing the memorization of camera positions. To learn how to use this feature, see How to configure the Presets Control.

6.1.5.5 Joystick Configuration button

Opens the joystick configuration, allowing you, among others, to configure the sensitivity and delay of operation. To learn how to use this feature, see How to configure the Joystick

6.1.5.6 Open Menu Controls button

Opens the analog camera configuration screens, allowing the remote configuration of their function such as its ID, for example. To learn how to use this feature, see How to remotely configure analogical cameras

6.1.5.7 How to configure the Presets Control

Presets are memorized positions of a movable camera. With this feature, we can memorize positions, and at any moment rapidly send the focus of the camera to the desired position.

Each model of camera supports a certain number of presets. The role of Digifort is to maintain an internal positions list created by the user referring to the list of internal presets of the camera, that is, the position 1, created by the user, is associated to internal position 1 of the camera, for example. When the user adds a preset, the two positions are linked.

The presets will be available for use in the Surveillance Client. Consult the Surveillance Client to learn how to call up the configured preset.

To access this feature, click on the Presets Control button, opening the screen below:

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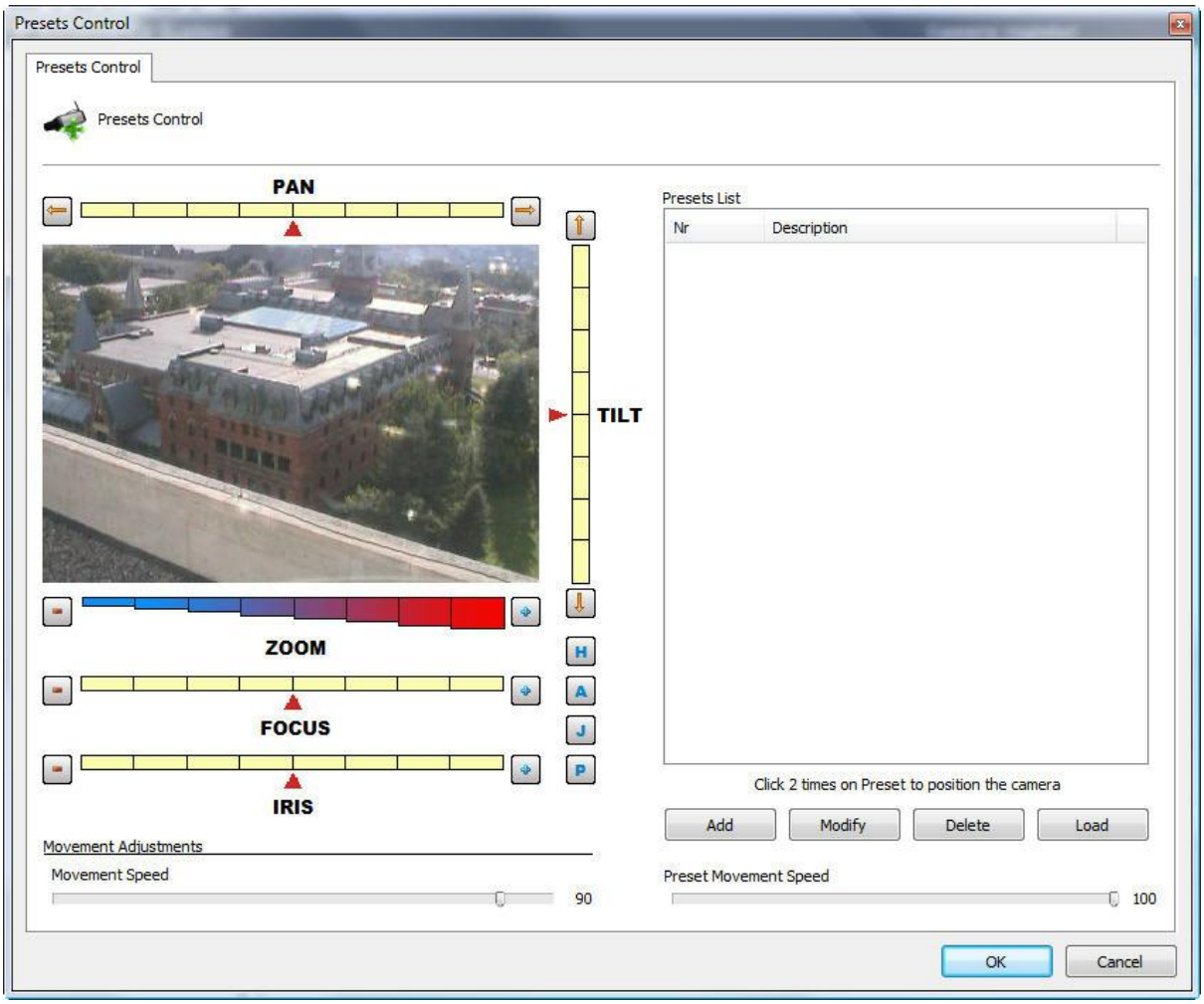

- **PAN bar**: Moves the camera to the left and to the right
- **TILT bar**: Moves the camera up and down
- **ZOOM bar**: Moves the camera's zoom in and out.
- **Focus bar**: Adjusts the camera's focus, in case this isn't done automatically.
- **Iris bar**: Adjusts the camera's iris, in case this isn't done automatically.
- **Home button**: This configuration is located on the button identified by an "H". Clicking on this button causes the camera to be positioned in its initial factory-determined position.
- **Advanced PTZ button**: This configuration is located on the button identified by an "A". Clicking on this button causes the advanced PTZ controls to be displayed. To learn how to use this feature, see Advanced PTZ.
- **Visual Joystick button**: This configuration is located on the button identified by a "J". Clicking on this button causes the visual joystick to be displayed over the allowing you to control its movement by mouse. To learn how to use this feature, see page Visual Joystick.
- **Movement adjustments**:
  - **PTZ by bar**:Define in what way the new camera positioning will be obtained. This configuration can have one of two values:
    - **Absolute PTZ**: The new positioning commands of the camera will be absolute, that is, relative to the Home position..
    - **Relative PTZ**: The new positioning commands of the camera will be relative

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to the present position
    - **Movement speed:** Movement speed of the camera while its position is being adjusted. This value is expressed as a percentage and its default value is 90% of the maximum speed of the camera.
- **Presets list:** This list contains all of the presets registered for this camera. To position the camera in a preset, double-click on the preset.
- **Add button:** Memorizes the present position of the camera. To learn how to use this feature, see How to create a preset
- **Modify button:** Modifies the selected preset..
- **Exclude button**: Excludes the selected preset.
- **Download button**: Loads the configured camera presets directly to the camera.
- **Preset movement speed**: Specifies the movement speed of the camera from one preset to another. This value is expressed as a percentage and its default value is 100% of the maximum speed.

Important

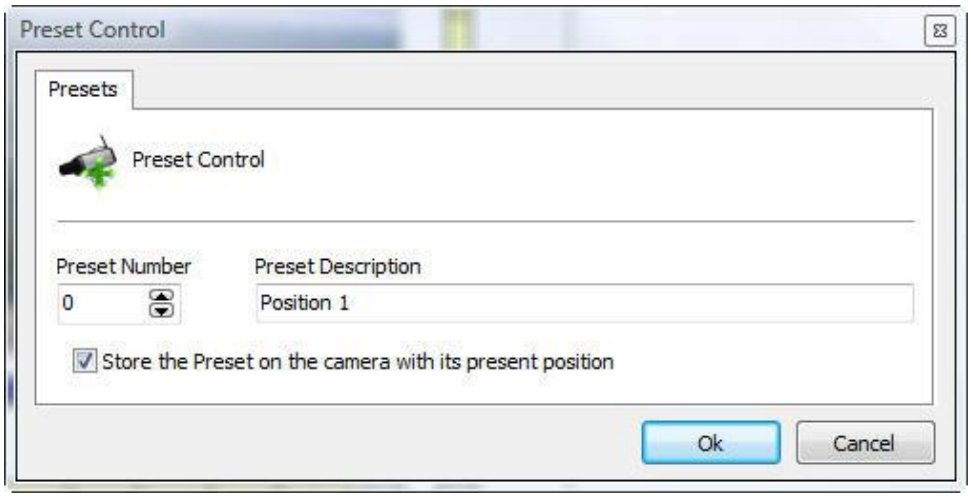
The presets list shows only a list of presets belonging to the camera. All presets created by Digifort are saved in the camera itself. Digifort associates the item of the list with the preset of the camera by way of its number.

Tip

it's possible to position the camera merely by clicking on the image in the place in which you wish to centralize it or use a table joystick.

6.1.5.8 How to create a preset

The process of creation of presets is quite easy, simply positioning the camera with the controls presented in the previous topic and clicking on Add, as shown in the picture below:



- **Preset number:** The number of the preset that Digifort will associate with the camera's internal presets list.
- **Description of the preset:** A description of the preset being added. This

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name will be displayed to the user in the Surveillance Client.

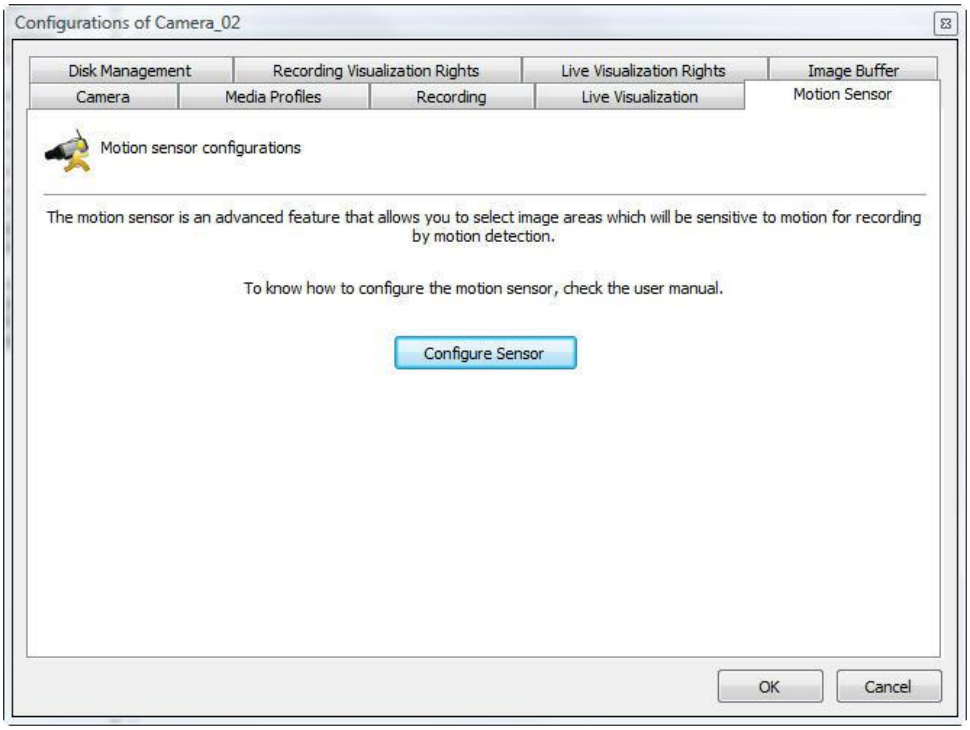
- **Record the preset in the camera with its present position:** With this option marked, Digifort will substitute the position of the camera of the informed preset number. In the example of the picture above, the position of the camera will be saved in the preset number zero of the camera. With this option unmarked, Digifort will only associate the description of the preset with the present position of the camera of preset zero..

6.1.6 How to configure the Motion Sensor

The Motion Sensor is a tool which makes it possible for the user to define areas of the image that will be sensitive or insensitive to motion.

The configuration of the motion sensor is very important for the saving of disk space used by the camera. If you selected the method of recording by **motion detection** in the **Camera** tab, it's recommended that you adjust the sensor according to your needs.

As default, if the sensor is not configured, the entire image will be sensitive to motion.
To access this feature, click on the **Motion Sensor** tab, as shown in the picture below:


Configurations of Camera_02
Disk Management
Recording Visualization Rights
Live Visualization Rights
Image Buffer
Camera
Media Profiles
Recording
Live Visualization
Motion Sensor
Motion sensor configurations
The motion sensor is an advanced feature that allows you to select image areas which will be sensitive to motion for recording by motion detection.
To know how to configure the motion sensor, check the user manual.
Configure Sensor
OK
Cancel

To configure the motion sensor, click on the Configure **Sensor Button**.

After clicking on this button, the motion sensor configuration window will open with a real image from the camera, as can be seen in the picture below:

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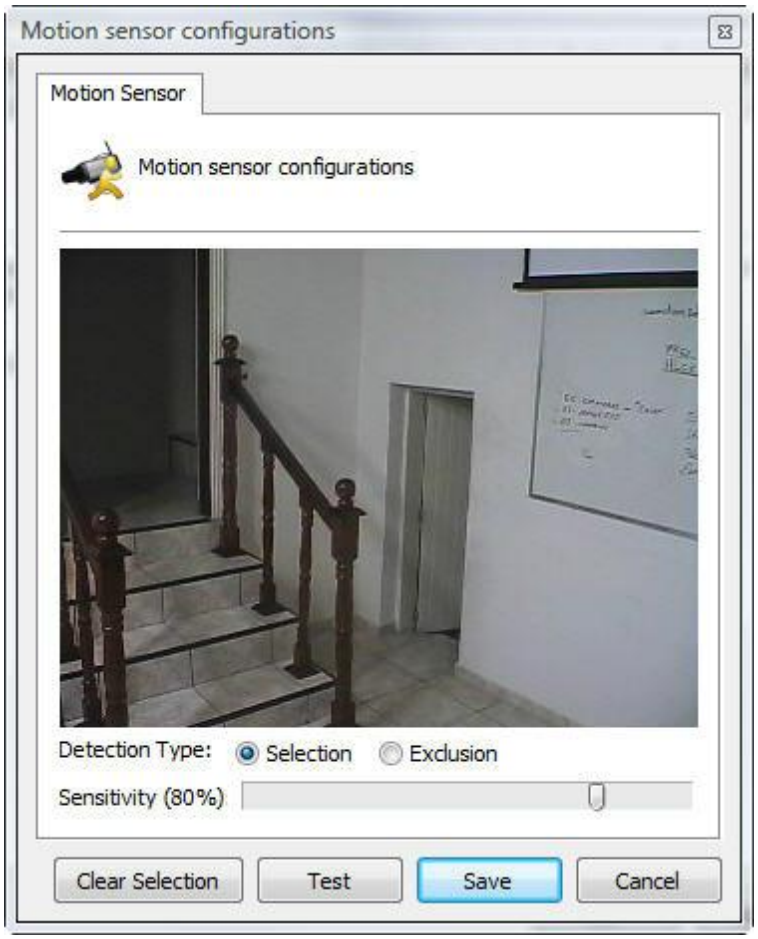

In this screen, you will be able to select the areas that will be sensitive to motion or areas will not be sensitive to motion.

To select areas that will be sensitive to motion, select the detection type Selection a click on the image, dragging the mouse to form a selection box. To select areas that will not be sensitive to motion, select the button Exclusion, repeating the process.

To exclude already configured areas, click on the right button of the mouse and select the box to be excluded or click on the Eliminate Selection button to eliminate all of the defined areas.

After selection of the desired areas, configure the sensitivity of motion. As default, the sensitivity is 80%. With this value, it's already possible to detect any type of motion in the image.

Once this is done, click on the Test button to visualize the functioning of the selected motion detection.
For performance reasons, Digifort analyses the camera images at two frames per second, that is, it's not necessary to detect motion in all of the frames, but only to analyze an image every 500ms. With this default any type of movement is detected.

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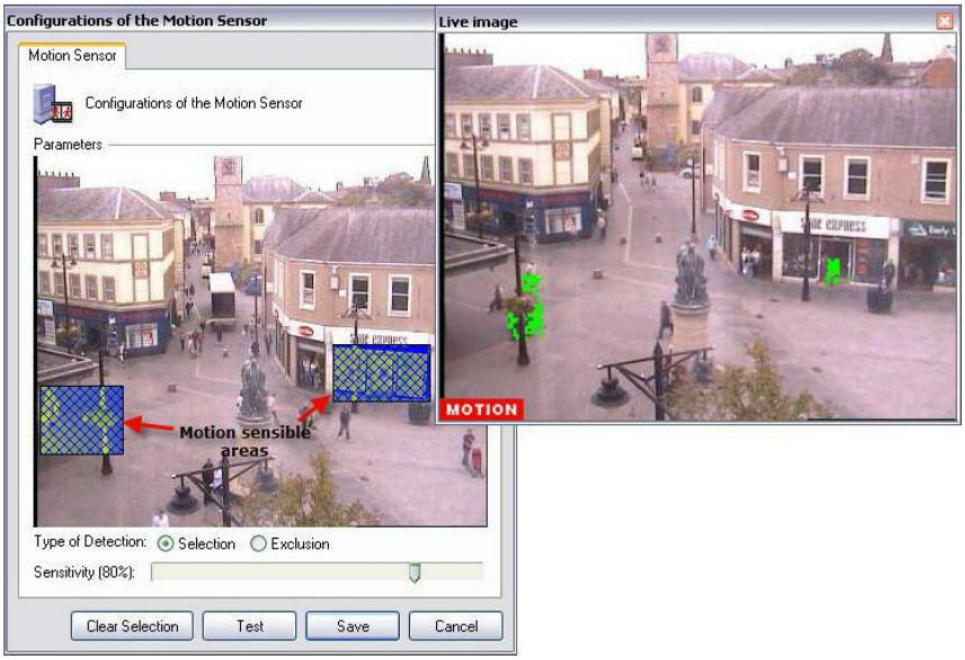
The picture below demonstrates the workings of the motion sensor with selection of areas sensitive to motion:



The picture below: demonstrates the workings of the motion sensor with selection of areas not sensitive to motion:

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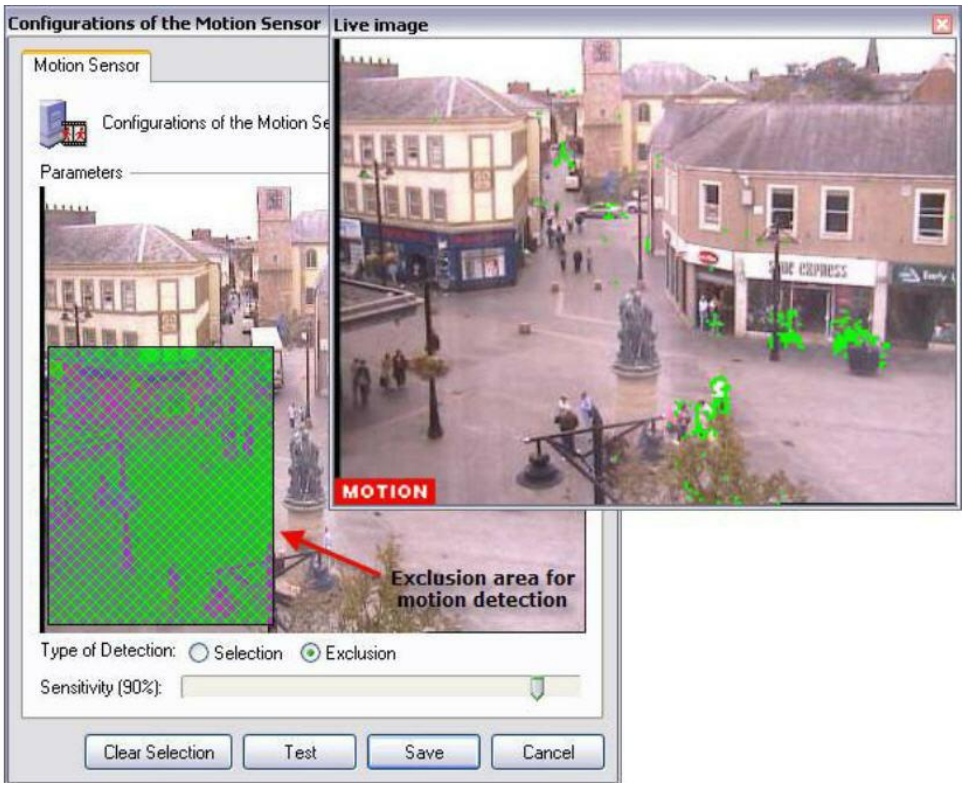

6.1.7 How to configure the recording visualization rights

This area of the camera register is reserved for the definition of the rights of visualization of recordings, that is, which users will be able to see videos already stored in the server, as opposed to live visualization rights, where which users are able to visualize cameras in real time are defined.

To access this feature, click on the Recording Visualization Rights tab, as shown in the picture below:

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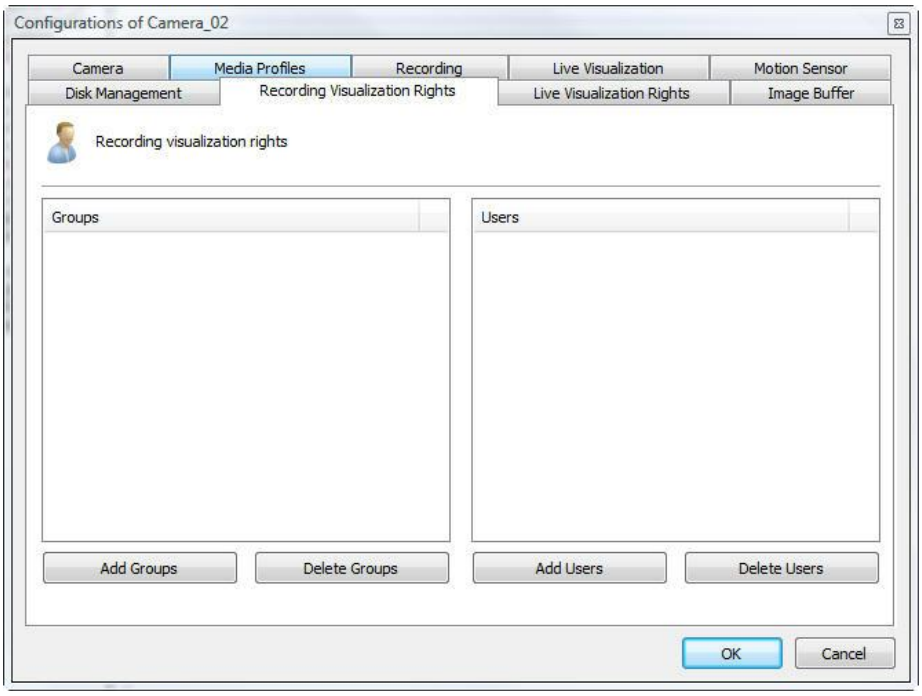

This screen presents two lists, one of groups and the other of users, the list of available groups, located at the left, and the list of allowed users, located at the right.

To give the right of viewing to a group, simply click on Add Groups and choose the desired group in the screen shown in Figure bellow:

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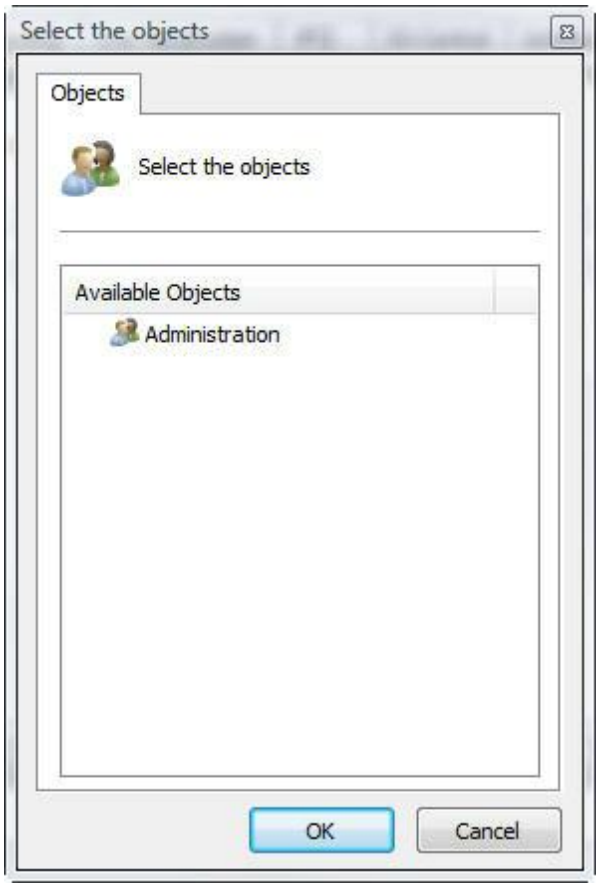

This rights are duplicated in the Surveillance Client in the Recordings area. Only the cameras that the user has logged have the right to view to view recordings will appear in the list of cameras.

6.1.8 How to configure the live visualization rights

The area of definition of live visualization rights works in a similar way to that of the recording visualization rights, except that in this area is defined which users will have access to visualization of the camera in real time. Reading of the previous topic is advisable for a better assimilation of the concept.

These rights are mirrored in the Surveillance Client where only those cameras to which access was granted are shown to the user.

To access this feature, click on the Live **Visualization Rights** tab, as shown in the picture below:

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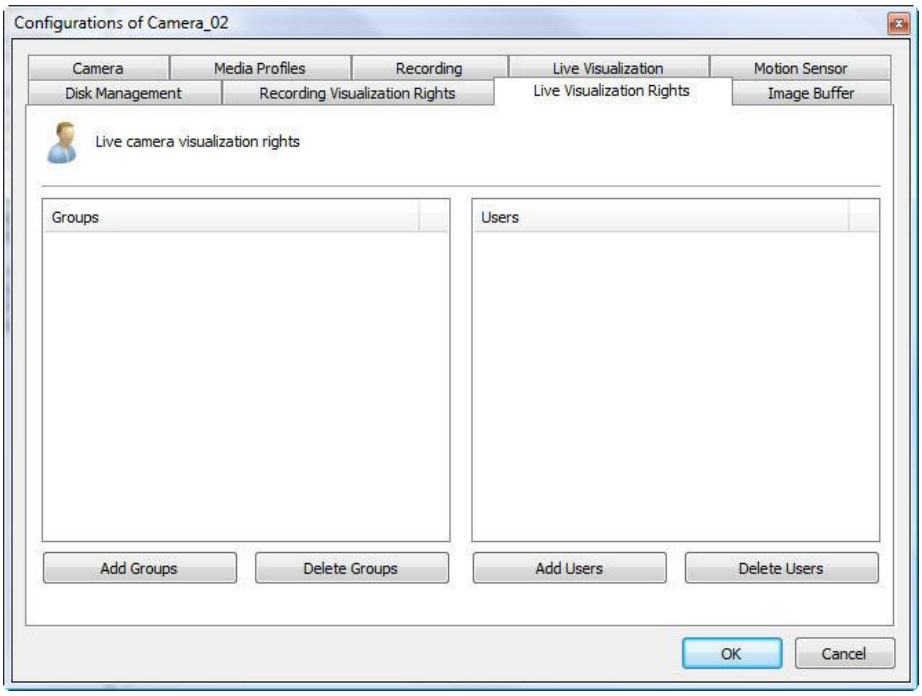

To give the right of viewing of recordings to the desired users/groups, simply click on **Add Groups/Users** and select them from the list of **Groups/Users** which will come up as shown in Figure bellow:

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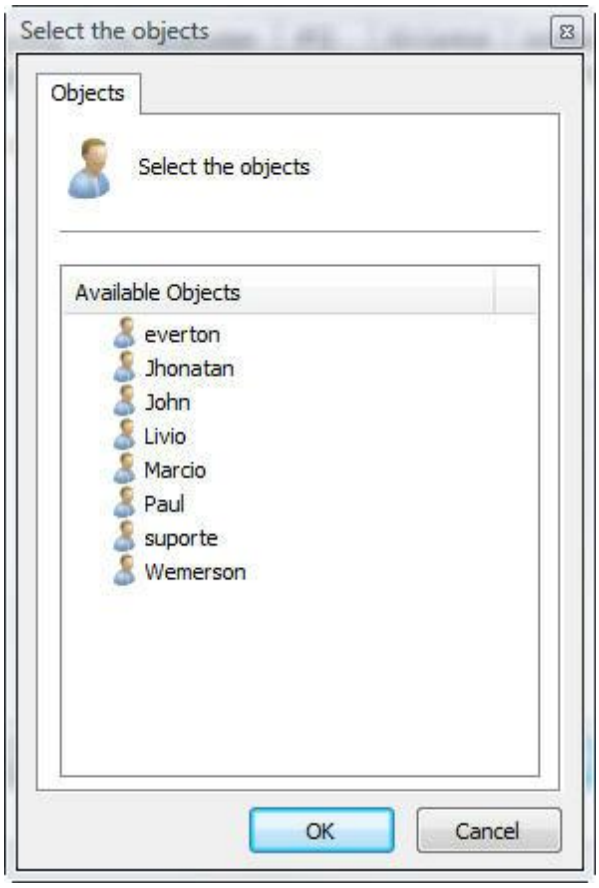

Select the available user and click on **OK**. The same rule applies to the list of groups.

6.1.9 How to configure camera events

During the operation of the camera in the Digifort System, various events occur in the camera. These events can be communication failures or alarm recognition events, for example.
By configuring the events of the camera, it's possible to specify a set of actions that Digifort will undertake when a determined event occurs.

Digifort Explorer offers control over automatic events, that is, events that occur without user intervention, and manual events, which are events generated based on intervention of the user.

To access this feature, click on the **Events** tab, as shown in the picture below:

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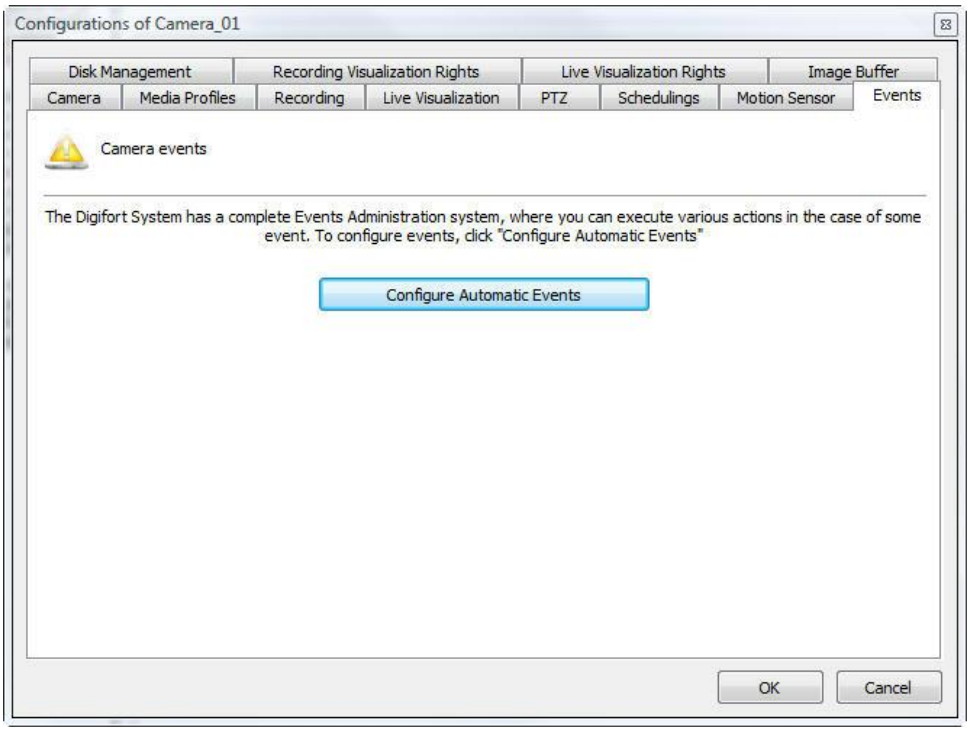

6.1.9.1 How to configure automatic events

Digifort Explorer offers control over automatic events, which are: failure of communication with the camera, failure of recording images in disk, and motion detection in the camera.

The communication failures occurs when a camera looses contact with the server, which could be sign of violence against the camera (attack on site with destruction of the equipment), or could be sign of mishap (fire), lack of electrical power, or even abnormalities in the system. The recording failures occur when the server's disk burns, for example, and motion detection occurs when some motion in the scene is detected by the camera.

For all events, it's possible to define a different set of alarm actions, by simply clicking on the corresponding **Alarm Actions** button.

To configure the automatic events, click on Configure Automatic Events, as shown in the picture below:

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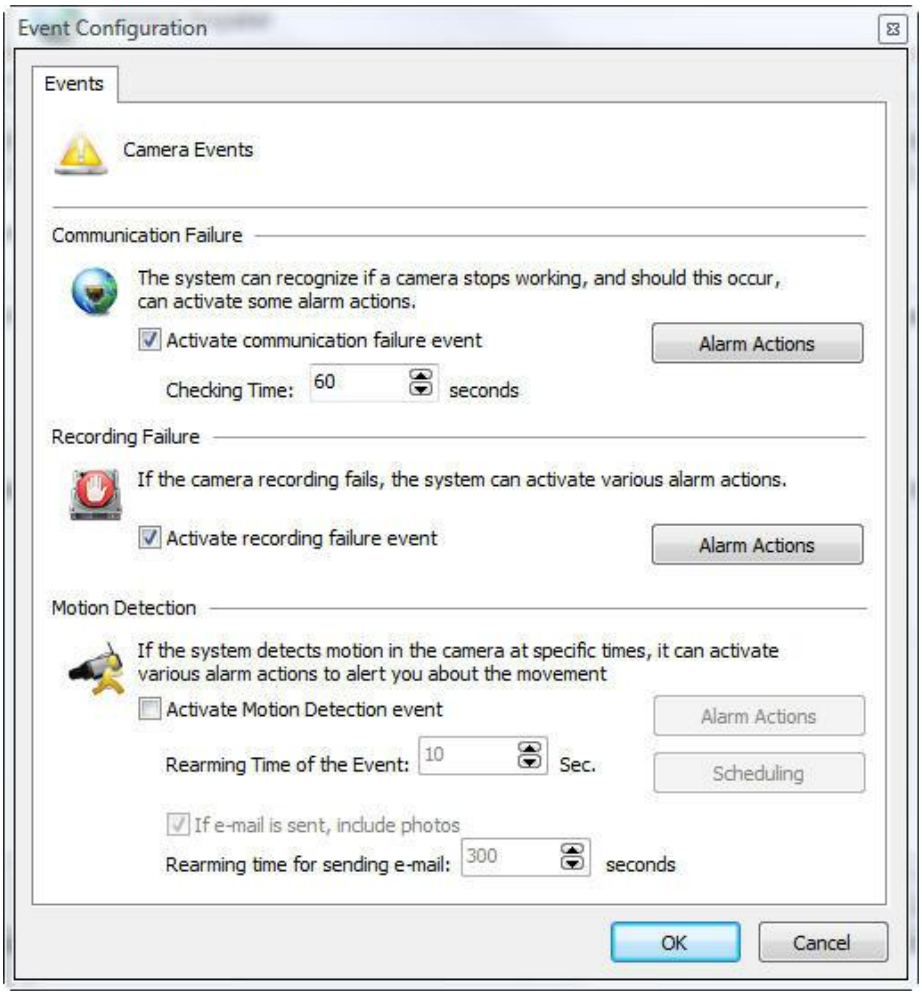
Event Configuration
Events
Camera Events
Communication Failure
The system can recognize if a camera stops working, and should this occur, can activate some alarm actions.
Activate communication failure event
Alarm Actions
Checking Time: 60 seconds
Recording Failure
If the camera recording fails, the system can activate various alarm actions.
Activate recording failure event
Alarm Actions
Motion Detection
If the system detects motion in the camera at specific times, it can activate various alarm actions to alert you about the movement
Activate Motion Detection event
Alarm Actions
Rearming Time of the Event: 10 Sec.
Scheduling
If e-mail is sent, include photos
Rearming time for sending e-mail: 300 seconds
OK
Cancel

6.1.9.1.1 How to configure the communications failure event

To configure the communications failure event, mark the option **Activate** communications failure event and specify the failure checking time. With this value informed, every X seconds the alarm actions will occurs again until the problem is solved.

To learn how to configure the alarm actions, see How to configure the alarm actions

6.1.9.1.2 How to configure the recording failure event

To configure the communications failure event, mark the option Activate recording failure event.

To learn how to configure the alarm actions, see How to configure the alarm actions

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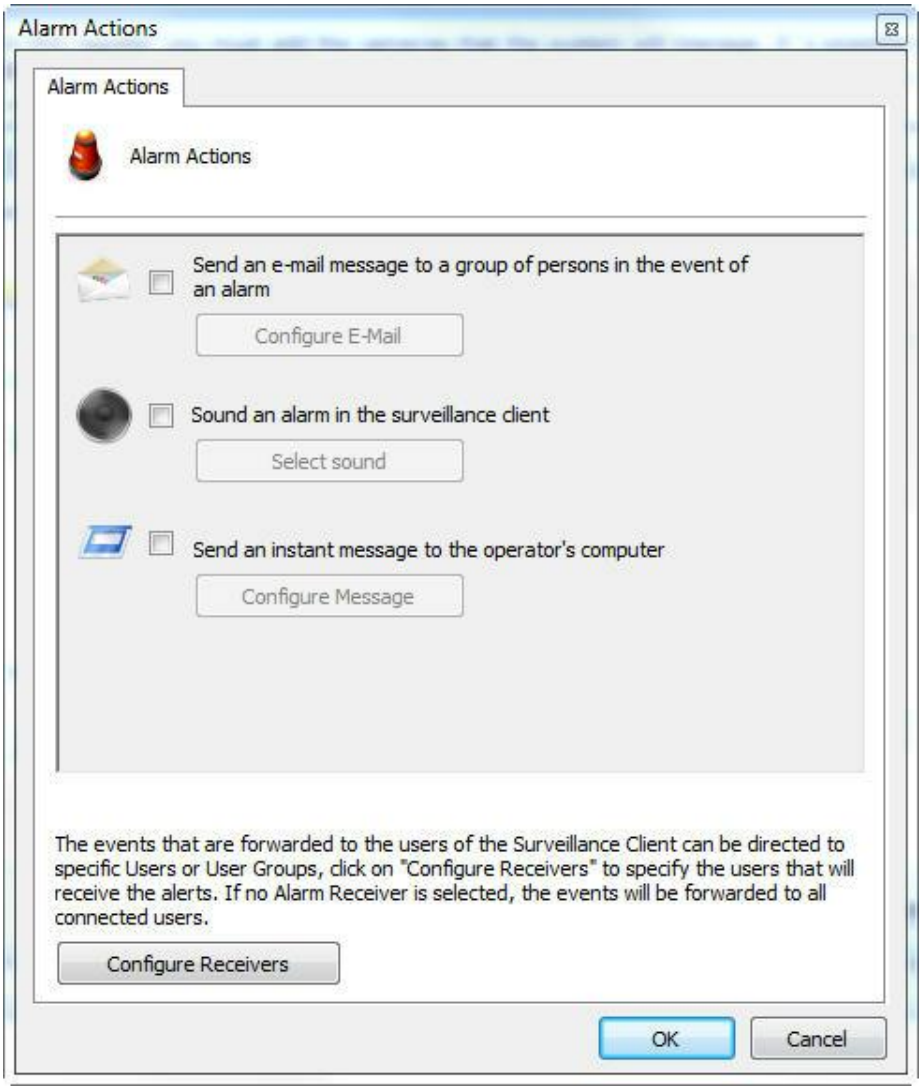
6.1.9.2 How to configure the alarm actions

Various events require the configuration of alarm actions. To access these configurations, click on the Alarm Actions corresponding to the executed configuration. After clicking on this button the screen of alarms configuration will be displayed, as shown in the picture below:


Alarm Actions
Alarm Actions
Alarm Actions
Send an e-mail message to a group of persons in the event of an alarm
Configure E-Mail
Sound an alarm in the surveillance client
Select sound
Send an instant message to the operator's computer
Configure Message
The events that are forwarded to the users of the Surveillance Client can be directed to specific Users or User Groups, click on "Configure Receivers" to specify the users that will receive the alerts. If no Alarm Receiver is selected, the events will be forwarded to all connected users.
Configure Receivers
OK
Cancel

Digifort Explorer offers eight alarm actions. Each alarm action has its own individual scheduling so that you can configure in which hours and days of the week the events can occurs.

6.1.9.2.1 Send an e-mail message to a group of persons in the case of an alarm

Sends notification e-mail to a selected alert group. If you wish to execute this action in case of the selected event, mark this option and click on Configure E-mail, opening the configuration screen of the e-mail message to be sent, as

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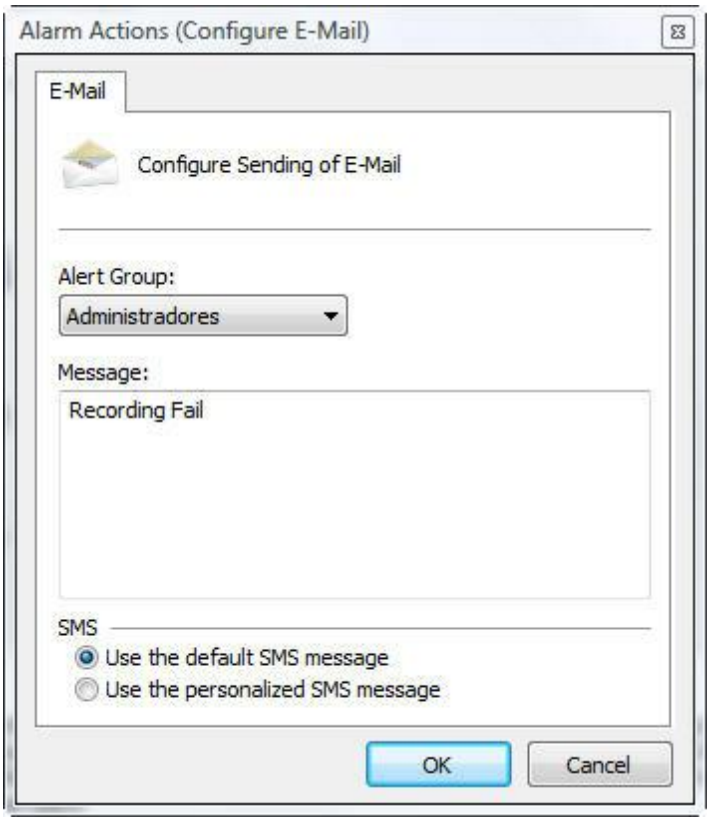
shown in picture below:



In this screen, select the alert group that will receive the e-mail and the message that will be sent to the group.

6.1.9.2.2 Sound an alarm in the Surveillance Client

Sounds an alarm in the Surveillance Client, alerting the operator to the event that occurred. If you wish to execute this action, in case of the selected event, mark this option and click on Select Sound, opening the configuration screen of the sound to be executed in the Surveillance Client, as shown in picture below:

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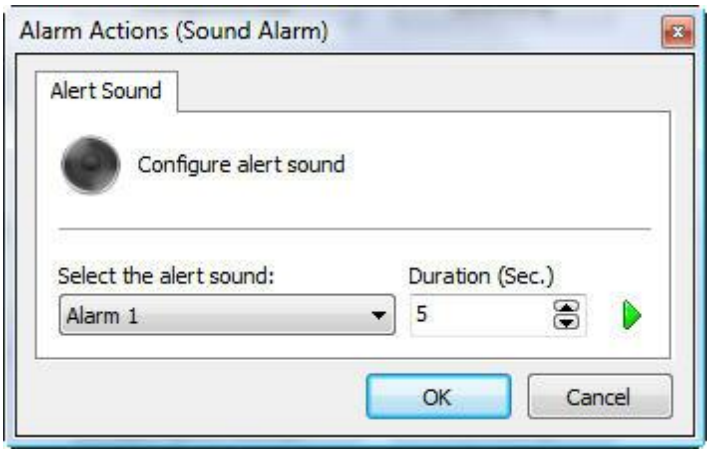

Select the desired alert sound and execution time in the Surveillance Client. To test the selected sound, click on the **Play** button.

6.1.9.2.3 Send instant message to the operator of the computer

Send an instant message to the operator with information defined by the administrator. These messages can contain instructions of the procedure to be executed by the operator for solution of the problem, for example. If you wish to execute this action in case of the selected event, mark this option and click on Configure Message, opening the configuration screen of the message to be displayed on the Surveillance Client, as shown in picture below:

In this screen, configure the message to be displayed to the operator on the Surveillance Client.

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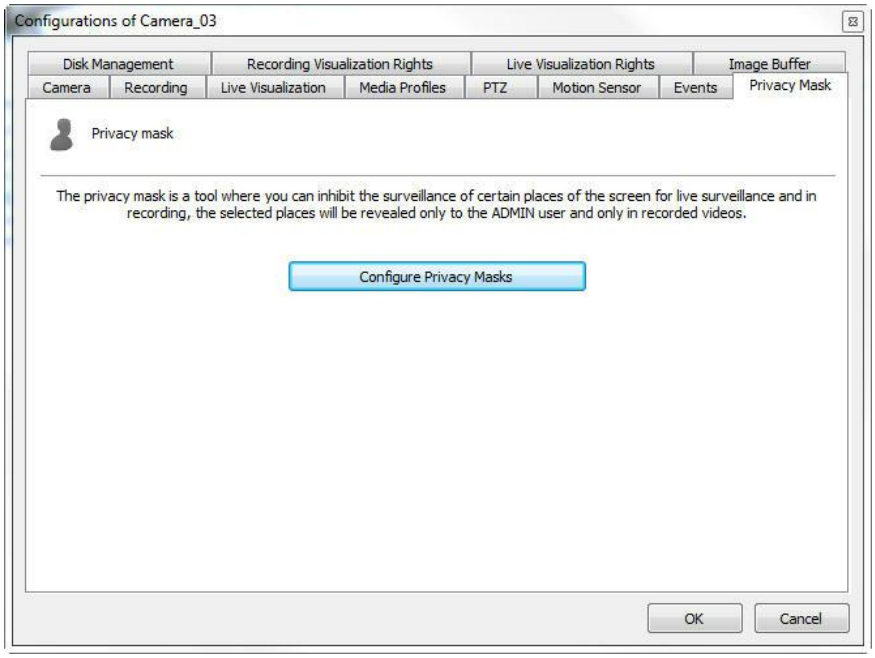
6.1.10 How to configure the Privacy Mask

The privacy mask is a tool which makes it possible to occult areas of the image that can't be observed by the operator.

It's important to emphasize that the privacy mask is not written in the server, but to the contrary, the original image is recorded and when the image is displayed on the screen, the privacy mask is applied.

The privacy mask is not applied in the admin user, as he has all system access rights.
To access this feature, click on the **Privacy Mask** tab, as shown in the picture below:


Configurations of Camera_03
Disk Management
Recording Visualization Rights
Live Visualization Rights
Image Buffer
Camera
Recording
Live Visualization
Media Profiles
PTZ
Motion Sensor
Events
Privacy Mask
Privacy mask
The privacy mask is a tool where you can inhibit the surveillance of certain places of the screen for live surveillance and in recording, the selected places will be revealed only to the ADMIN user and only in recorded videos.
Configure Privacy Masks
OK
Cancel

To configure the privacy mask, click on Configure Privacy Masks, as shown in the picture below:

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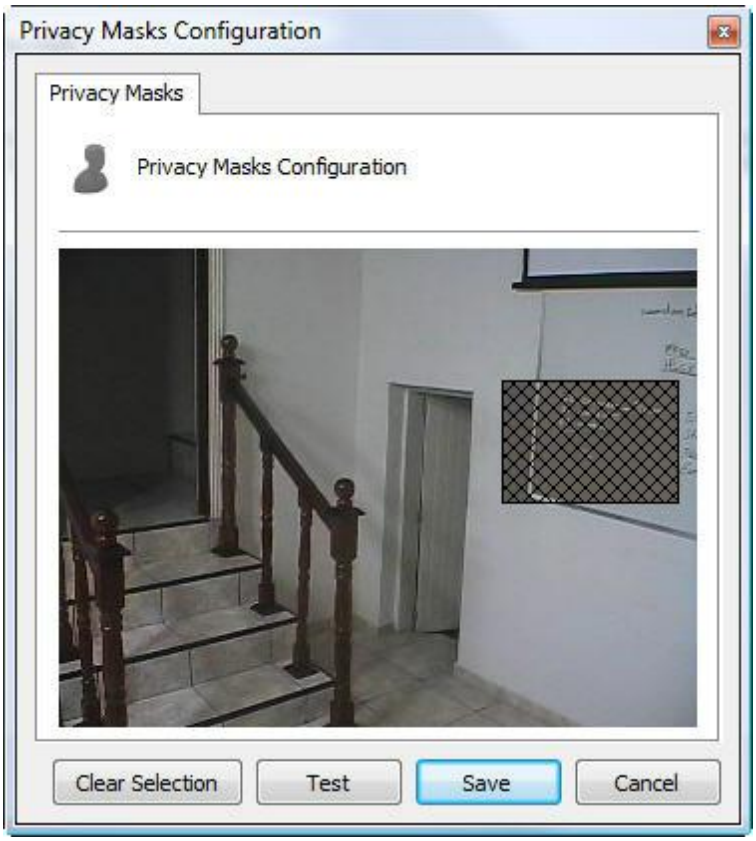

In the example of the picture above the visualization of the entrance of the house is not permitted to the operator. The effect of this configuration is demonstrated in the picture below:

To add a privacy mask, click on the left button of the mouse over the image and drag it, forming a rectangle. To remove a selected area, make a rectangle with the right button of the mouse englobing all of the area of the mask to be removed, or click on **Eliminate Selection** to eliminate all of the created masks.

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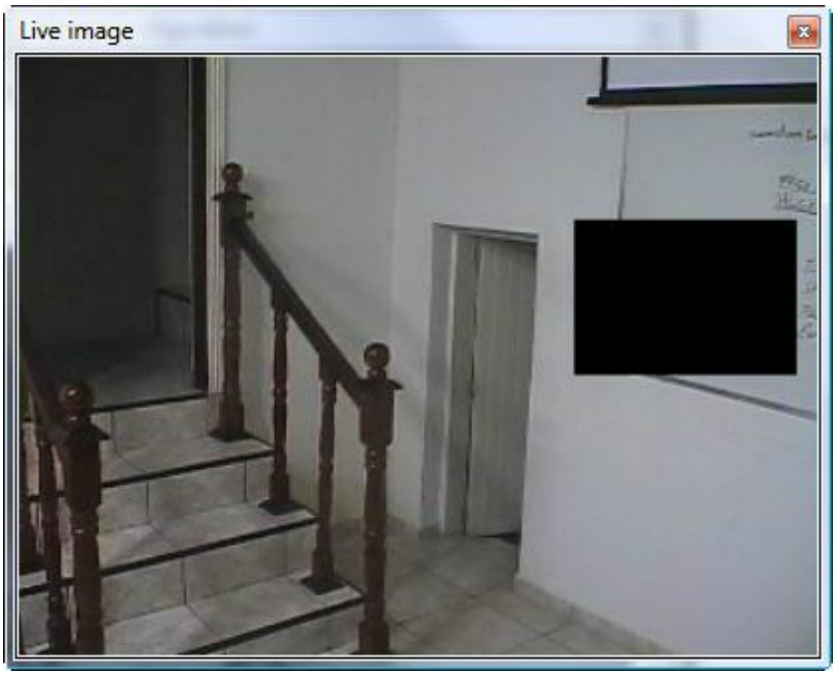

6.1.11 How to configure the Disk Management

Digifort has an advanced system of disk management, responsible for the administration of the recorded images.

For good performance of the server, this configuration must be very well thought out before executing, as it involves several factors such as available disk space, type of recording selected for the camera, number of cameras in the system, etc.

As the space we have in disk is always limited, Digifort needs to eliminate old recordings to store new ones. For this purpose, a time limit or space limit for the recordings must be specified, so that when the configured limit is reached, the old recordings are eliminated, freeing space for the new recordings.

The disk manager offers three types of configurations, these being: recording by limit of days, recording by limit of hours and recording by limit of disk space.

The disk manager includes three types of configurations: recording by day limit; recording by time limit; and recording by disk space limit.
In the types of configuration by day and time limits, the system automatically allocates the space needed to record the images within the limit specified by making a statistical analysis based on the images already recorded by the camera. A set of cameras that does not need much space will then transfer that unused space to another camera that needs it, always respecting the recording limit configured for each camera. With Digifort you can record images in various storage places and HDs (for example: RAID5 or superior) automatically counterbalancing the amount of recording.
This is the most recommended method and the most reliable one guaranteeing that the images will be found in the future when requested if the day limit has

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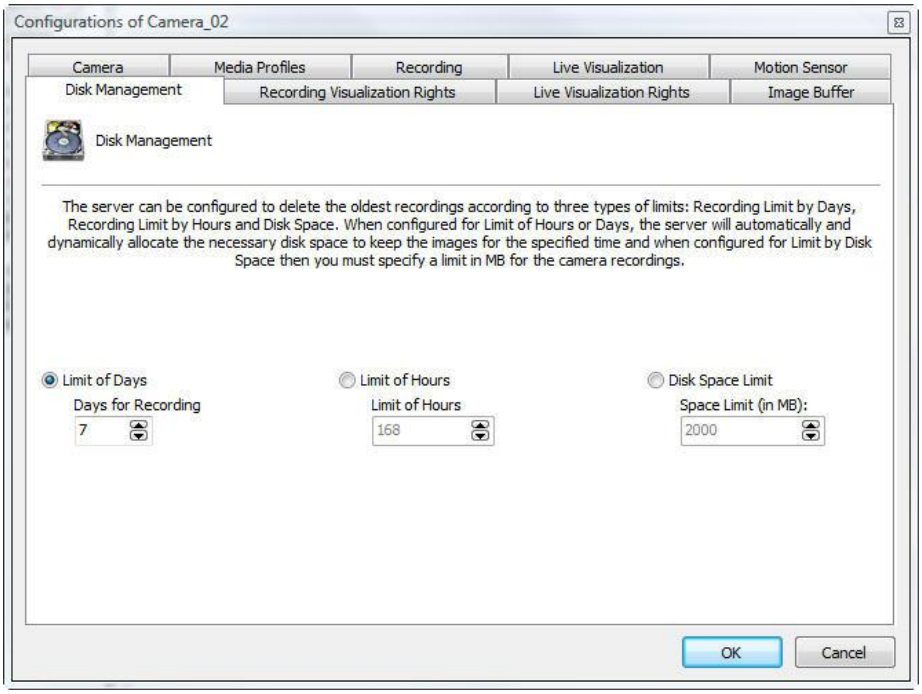
not been surpassed.

In recording by disk space limit, the quantity of disk space to be used by the camera must be specified.

When this limit is surpassed, the system automatically eliminates the oldest recordings of the camera, in order to occupy only the configured space.
To access this feature, click on the Disk Management tab, as shown in the picture below:


Configurations of Camera_02
Camera
Media Profiles
Recording
Live Visualization
Motion Sensor
Disk Management
Recording Visualization Rights
Live Visualization Rights
Image Buffer
Disk Management
The server can be configured to delete the oldest recordings according to three types of limits: Recording Limit by Days, Recording Limit by Hours and Disk Space. When configured for Limit of Hours or Days, the server will automatically and dynamically allocate the necessary disk space to keep the images for the specified time and when configured for Limit by Disk Space then you must specify a limit in MB for the camera recordings.
Limit of Days
Days for Recording
7
Limit of Hours
Limit of Hours
168
Disk Space Limit
Space Limit (in MB):
2000
OK
Cancel

6.1.11.1 Recording by limit of days

Recording by limit of days keeps the camera images stored in disk during only the specified absolute number of days.
For a better understanding of this type of configuration, let's suppose we have these two situations:

1. The recording mode of the camera is configured for continuous recording (always record) and the limit of days of recording is configured for seven days. With this configuration, seven days of images are stored in disk, and when the eighth day comes, the oldest recording (first day) will be deleted.

2. The recording mode of the camera is configured for recording by motion detection and the limit of days of recording is configured for seven days. Supposing that, of these seven days, only four had motion, then only four days of images are stored in disk, and when the eighth day comes, the oldest recording will be deleted.

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As we can observe by the situations described, we must be very careful with this configuration, since if the camera is recording by motion detection, it's not always recording in disk the specified number of days, since there was no motion on some days, the images of these days are not recorded. This is due to the fact that the configured number of consecutive days will be recorded. configurados.

6.1.11.2 Recording by limit of hours

Recording by limit of hours keeps the camera images stored in disk during only the specified absolute number of days.
For a better understanding of this type of configuration, let's suppose we have these two situations:

1. The recording mode of the camera is configured for continuous recording (always record) and the limit of hours of recording is configured for 168 hours. With this configuration, the last 168 hours of images are stored in disk, the equivalent of exactly seven days. When the 169th hour comes, the system will eliminate the limit configured in days, freeing disk space for new recordings.

2. The recording mode of the camera is configured for recording by motion detection and the limit of hours of recording is configured for 168 hours. Supposing that in the last two days there was no motion detection in this camera. Then the equivalent of nine days will be stored in disk, even though 168 hours is equivalent to seven days. When the 169th hour comes, the system will eliminate the limit configured in days, freeing disk space for new recordings.

Tip: Using the limit of recording by hours in a very interesting alternative, when used together with motion detection, as it maximizes the number of hours that can be recorded in disk.

6.1.12 Camera management functions

Digifort allows the basic configurations in common with all cameras to be applied in batch.
Select the desired cameras and click on the right button, opening the Options Menu, as shown in the picture below:

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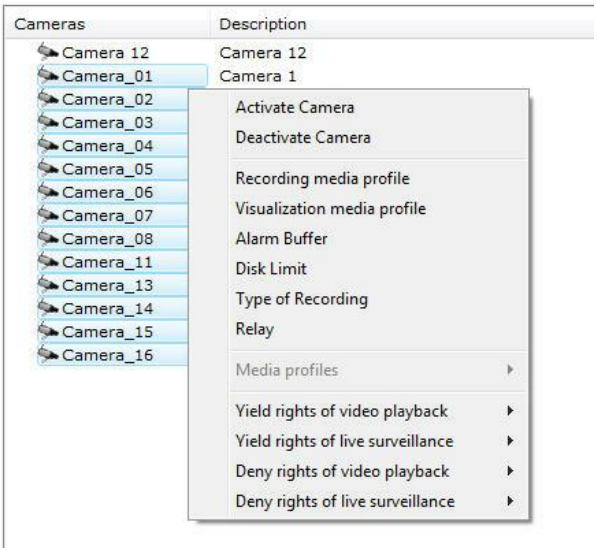

The options menu offers the following functions:

6.1.12.1 Activate camera

Activates the recording of the selected cameras

6.1.12.2 Disactivate camera

Disactivates the recording of the selected cameras

6.1.12.3 Media Profiles

Add, Alter or Exclude the Media Profiles for several cameras simultaneously, as long as they have the same media options. To select the cameras with the same media profile, select a desired camera and press Ctrl + M. If there are cameras with the same media profile as the selected camera, it will automatically be selected.

6.1.12.4 Recording media profile

Simultaneously configure the type of profile of the recording media for the cameras with the same profile as the configuration. To select the cameras with the same media profile, select a desired camera and press Ctrl + M. If there are cameras with the same media profile as the selected camera, it will automatically be selected.

6.1.12.5 Viewing media profile

Simultaneously configure the type of profile of the viewing for the cameras with the same profile as the configuration. To select the cameras with the same media profile, select a desired camera and press Ctrl + M. If there are cameras with the same media profile as the selected camera, it will automatically be selected.

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6.1.12.6 Type of recording

Modifies the type of recording of the selected cameras. To learn how to use this feature, see How to configure the recording of the camera

6.1.12.7 Relay

Activate Relay for the selected cameras. To learn how to config this feature see How to configure the visualization of the camera

6.1.12.8 Give video playback rights

Give video playback rights: To give viewing rights for video playback to selected cameras. In the option users or groups, a screen will open up with a list of all users or groups registered in the system. Select the users/ gruops to whom you want to give the right to video playback for these cameras and click on OK. To lear more about video playback rights see Users rights

6.1.12.9 Give live surveillance rights

To give viewing rights for live surveillance to selected cameras. In the option users or groups, a screen will open up with a list of all users or groups registered in the system. Select the users/gruops to whom you want to give the right to video playback for these cameras and click on OK. To learn more about surveillance rights see Users rights

6.1.12.10 Deny video playback rights

Denies video playback rights for the selected cameras. In the option users or groups, a screen will open up with a list of all users or groups registered in the system. Select the users/gruops to whom you want to give the right to video playback for these cameras and click on **OK**. To learn about video playback rights see Users rights

6.1.12.11 Deny live surveillance rights

Denies live surveillance rights for the selected cameras. In the option users or groups, a screen will open up with a list of all users or groups registered in the system. Select the users/gruops to whom you want to give the right to video playback for these cameras and click on **OK**. To learn about live surveillance rights see Users rights

6.1.13 Finding and registering cameras automatically

Digifort possess the option to have cameras that support the UPnP protocol to be automatically located and registered into the system. We shall see below how this feature works:

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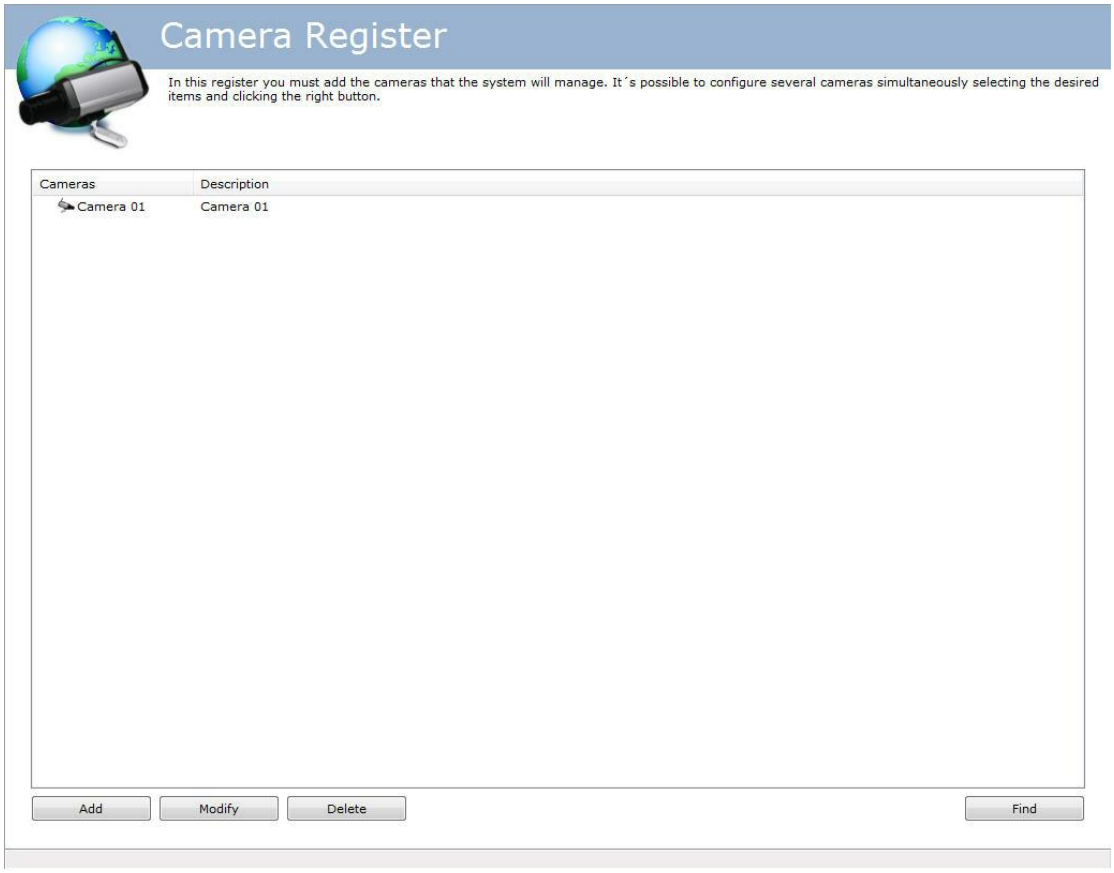
On the screen of camera register click the button (Find) as shown in the image below:


Camera Register
In this register you must add the cameras that the system will manage. It´s possible to configure several cameras simultaneously selecting the desired items and clicking the right button.
Cameras
Description
Camera 01
Camera 01
Add
Modify
Delete
Find

The following screen appears:

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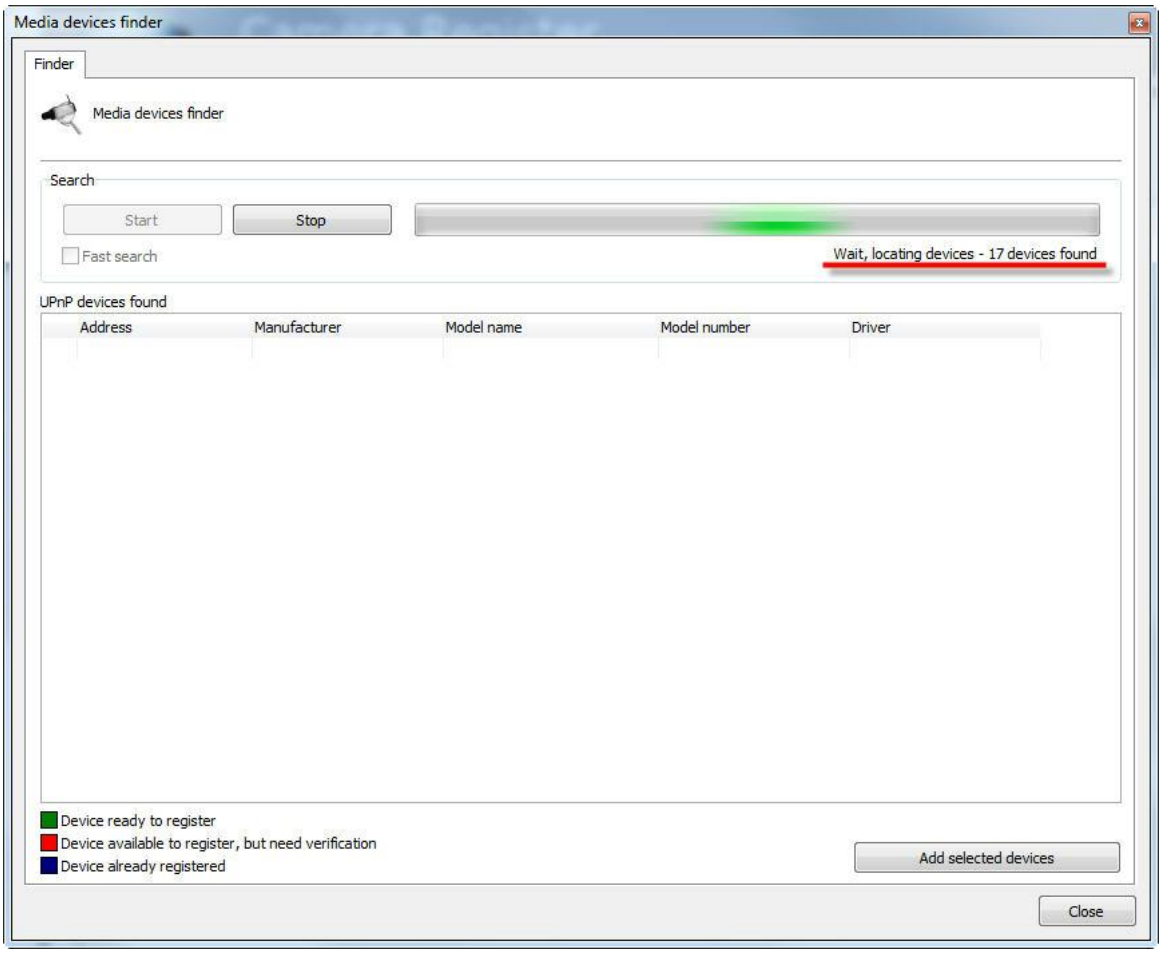

On this screen to search for equipment is made. There are two types of search:

- **Normal** The normal search for UPnP devices takes about 40 seconds to find the equipment. This happens because besides find the equipment that responded to a request, this search looks for UPnP broadcast packets on network to find more devices.
- **Quick Search:** The quick search takes about 15 seconds to finding an equipment. This search only finds devices

who responded to the Digifort UPnP request . To enable quick search simply click on the **Fast Search** box.

To begin your search click on **Start (Start)** button and the message "**wait, location devices** " will appears while the equipment are located. Once found, the equipment will be listed as shown below:

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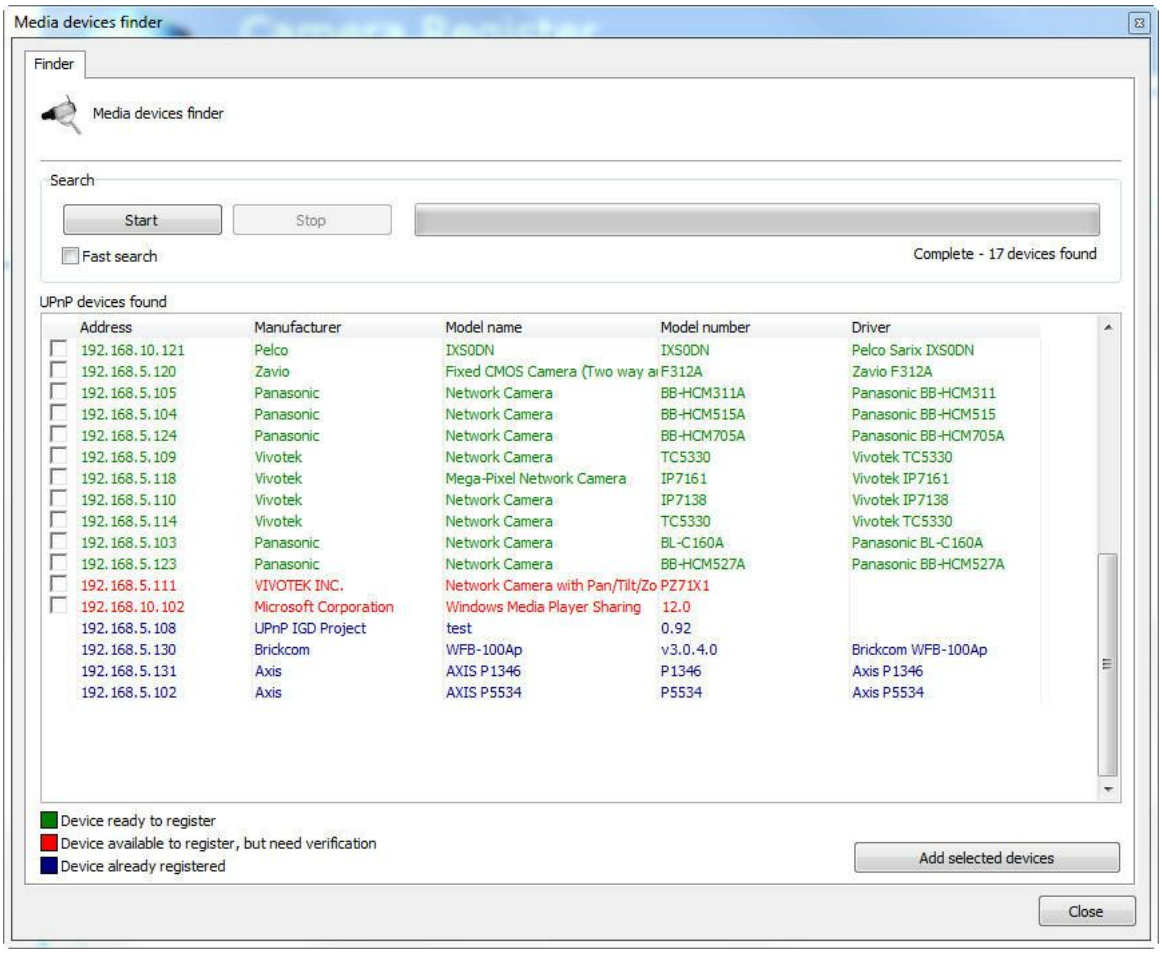
Media devices finder
Finder
Media devices finder
Search
Start
Stop
Fast search
Complete - 17 devices found
UPnP devices found
Address
Manufacturer
Model name
Model number
Driver
192.168.10.121 Pelco IXS0DN IXS0DN Pelco Sarix IXS0DN
192.168.5.120 Zavio Fixed CMOS Camera (Two way a F312A Zavio F312A
192.168.5.105 Panasonic Network Camera BB-HCM311A Panasonic BB-HCM311
192.168.5.104 Panasonic Network Camera BB-HCM515A Panasonic BB-HCM515
192.168.5.124 Panasonic Network Camera BB-HCM705A Panasonic BB-HCM705A
192.168.5.109 Vivotek Network Camera TC5330 Vivotek TC5330
192.168.5.118 Vivotek Mega-Pixel Network Camera IP7161 Vivotek IP7161
192.168.5.110 Vivotek Network Camera IP7138 Vivotek IP7138
192.168.5.114 Vivotek Network Camera TC5330 Vivotek TC5330
192.168.5.103 Panasonic Network Camera BL-C160A Panasonic BL-C160A
192.168.5.123 Panasonic Network Camera BB-HCM527A Panasonic BB-HCM527A
192.168.5.111 VIVOTEK INC. Network Camera with Pan/Tilt/Zo PZ71X1
192.168.10.102 Microsoft Corporation Windows Media Player Sharing 12.0
192.168.5.108 UPnP IGD Project test 0.92
192.168.5.130 Brickcom WFB-100Ap v3.0.4.0 Brickcom WFB-100Ap
192.168.5.131 Axis AXIS P1346 P1346 Axis P1346
192.168.5.102 Axis AXIS P5534 P5534 Axis P5534
Device ready to register
Device available to register, but need verification
Device already registered
Add selected devices
Close

It can be found three types of devices according to the subtitles at the bottom left of the screen:

- **Green - (Device ready to register):** These are the cameras that have found their manufacturers and models already approved in Digifort. These cameras devices are ready to be added to Digifort.

- **Red - (Device available to register):** These are the devices that were not found in the data base of approved devices in Digifort. This can occur if the unit is not actually approved or the name of the manufacturer / driver is written differently than is registered in Digifort. In case the name is incorrect, it can be corrected on the screen itself through a selection box as shown below:

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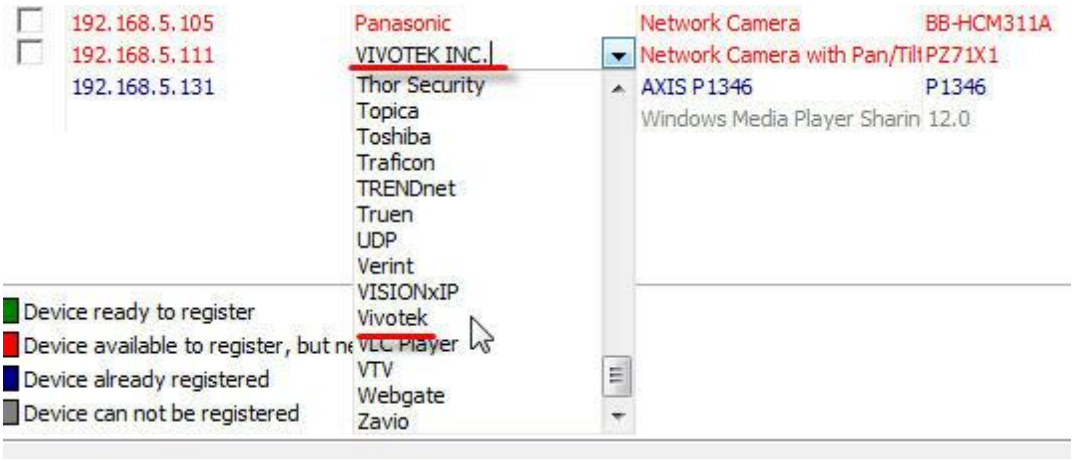


- **Blue - (Device already registered)**: These are devices that are already registered in Digifort.
- **Grey - (Device cannot be registered):** In this case the device or software located did not return any IP address and the device cannot be added automatically.

There are two ways to **register** the devices found.

6.1.13.1 Registration of one device only

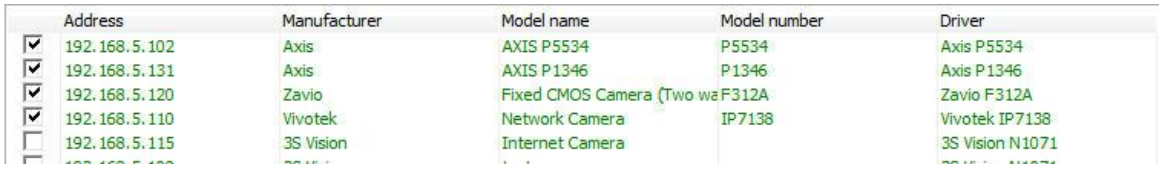
- **Registration of one device only:** Select a product over the box as shown below:

Address	Manufacturer	Model name	Model number	Driver
192.168.5.102	Axis	AXIS P5534	P5534	Axis P5534
192.168.5.110	Vivotek	Network Camera	IP7138	Vivotek IP7138

After selecting the device, click the **Add selected devices** and the camera registration screen is displayed with **Manufacturer**, **Camera model, IP** and **Port** fields already filled. Thus we will only have to fill out name, description, recording directory, and password of the camera.

6.1.13.2 Registration of various devices

This feature can register multiple cameras simultaneously with sequential numbers. To begin, select several devices from the selection box as shown below:



Address	Manufacturer	Model name	Model number	Driver
192.168.5.102	Axis	AXIS P5534	P5534	Axis P5534
192.168.5.131	Axis	AXIS P1346	P1346	Axis P1346
192.168.5.120	Zavio	Fixed CMOS Camera (Two wa	F312A	Zavio F312A
192.168.5.110	Vivotek	Network Camera	IP7138	Vivotek IP7138
192.168.5.115	3S Vision	Internet Camera		3S Vision N1071

After selecting the device, click the Add selected devices and the following screen appears:

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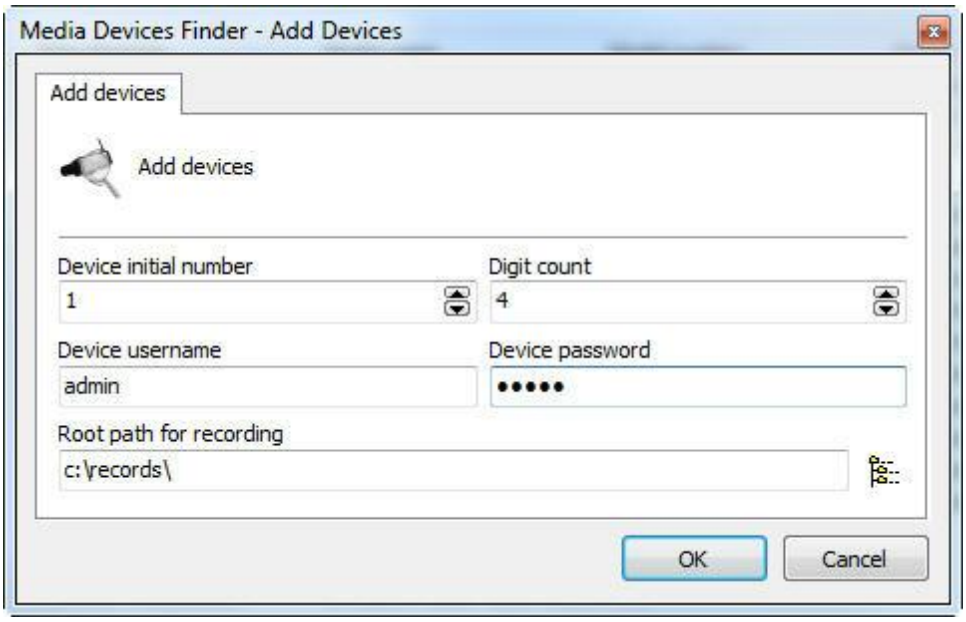
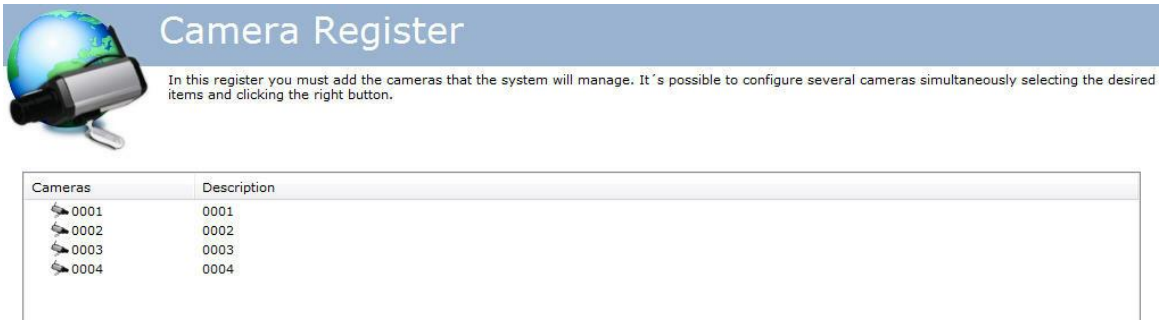


The information provided on this screen will apply for all cameras to be registered:

- **Device initial number:** The name of the cameras will be recorded in the form of a sequence of numbers. This field will set the starting number from which to begin counting.
- **Digit count**: number of spaces you want. E.g.: If the counting starts with number 1 and number of decimal places is 4 then the name of the first camera registered will be 0001.
- **Device username**: User name used for Digifort to authenticate the devices.
- **Device password**: Password used for Digifort to authenticate the devices.
- **Root path for recording:** Enter a directory where Digifort will create a folder for each camera to store your recordings. This folder will have the same camera name (E.g.: 0001, 0002, etc.).

Após cadastrar as diversas câmeras, seus respectivos status automaticamente mudarão para **AZUL (Câmera já cadastrada).** Dessa maneira as câmeras foram cadastradas com sucesso como mostra a imagem abaixo:



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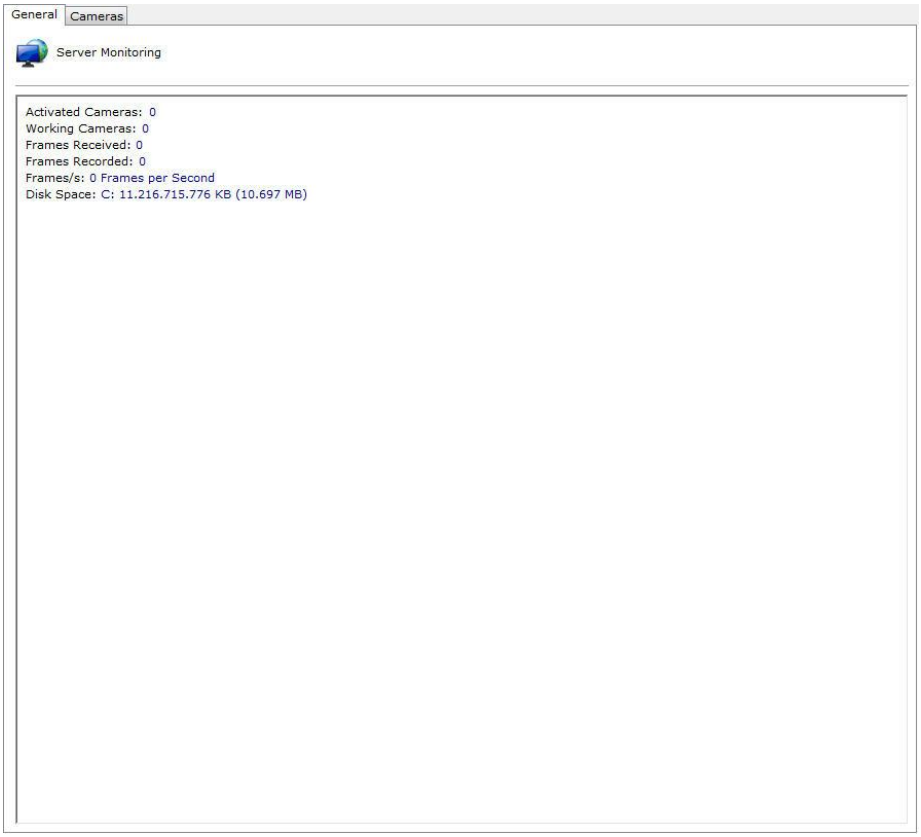
6.2 Monitoring the status of the recording server

In this area of the system you will be able to check up on the general status of all cameras registered in the system

To access this function, select the item Status in Recording Server in the Configurations Menu, as shown in the picture below:

Once this is done, a screen will be opened on the right side with general information about the cameras, as shown in the picture below:



6.2.1 Monitoring the status of cameras individually

In this area of the system you will be able to check up on the individual status of each camera, getting information such as working status, IP address, activity time, disk space used, etc.

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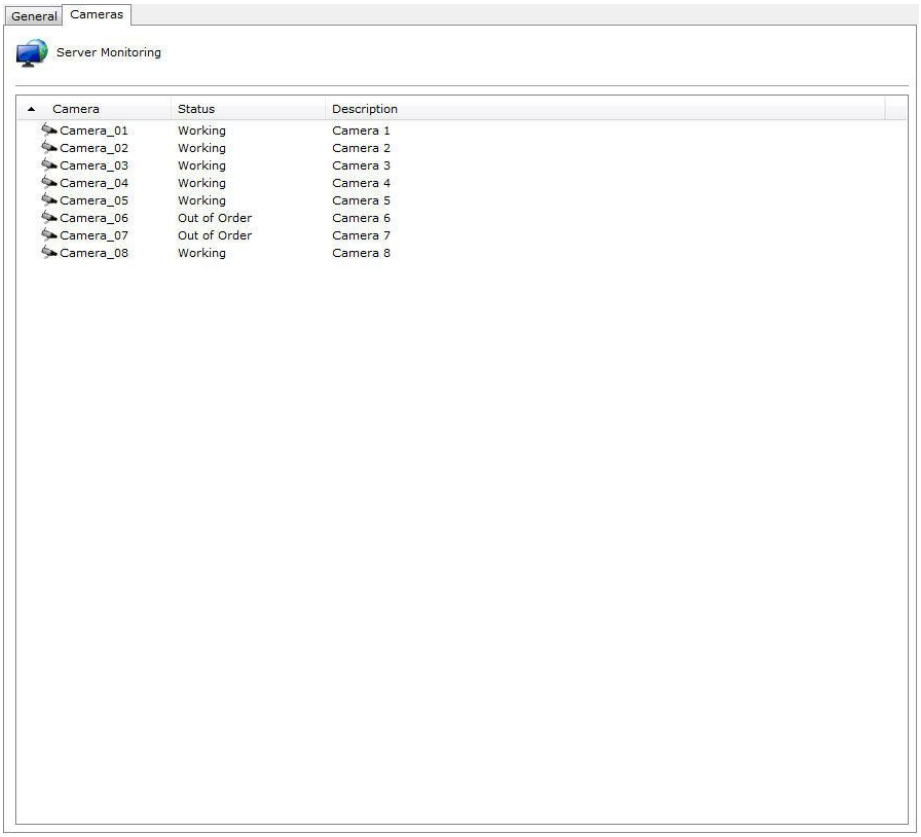
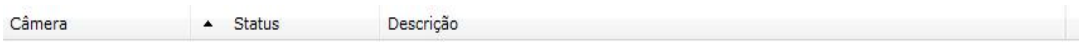
To access this feature, click on the Cameras tab in the Status item of the Recording Server, as shown in the picture below:



This screen will show all of the registered and active cameras in the system and inform us about the working status. If the status is “Working”, the camera is working normally and if the status is “Out of order” some communication problem with the camera is happening, check the electrical and logical net.

The list can be classified by camera names, by their status or by description. To do so, simply click above the desired topic. An arrow will show which topic is being listed and if it’s increasing or decreasing order as shown in the figure.



To display details about the functioning of each camera, give a double-click on the desired camera. The details will be described in the next topics.

6.2.1.1 Recording Connection

This screen gives detailed information about the connection used with the camera for image recording, as shown in the picture below:

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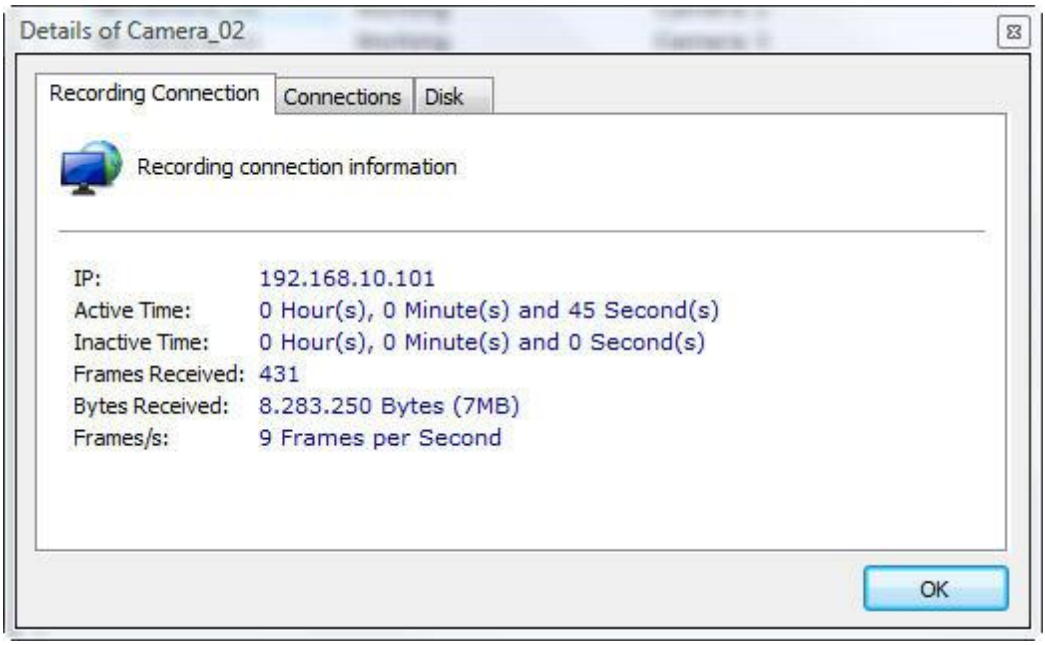

- **IP**: IP address of the camera.
- **Active Time**: Activity time of the camera since its activation or modification of the parameters.
- **Inactive Time**: Inactivity time of the camera.
- **Photos received**: The number of photos received from the camera since its activation or modification of the parameters.
- **Bytes received**: The number of bytes received from the camera since its activation or modification of the parameters.
- **Frames/s:** Frames per second being received from the camera.

6.2.1.2 Connections

This screen gives us information about all connections made with the camera for recording and video visualization.

The connections are displayed in tree-format, that is, showing the type of connection, with items, showing the type of connection, and subitems, displaying details of the connection.
To access this feature, click on the Connections tab, as shown in the picture below:

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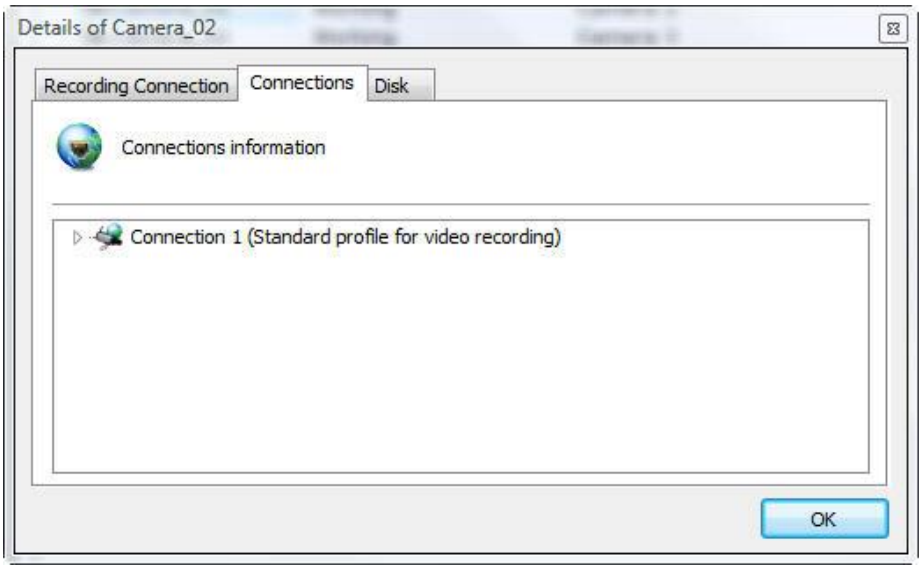

- **Profile**: media profile associated with the connection. To learn what a media profile is, see Media Profiles
- **Frames Received**: Frames received from the camera with this connection since its activation or modification of the parameters.
- **Frames per Second**: Frames per second being received in real time.
- **Bytes Received**: Bytes received from the camera with this connection since its activation or modification of the parameters.
- **Bytes per Second**: Bytes per second being received in real time.
- **Associated Nodes**: The number of features being used in this connection. In this case, the connection is being used only for recording the images, showing the value 1. If the camera were also being monitored via Relay Server by this connection, the value 2 would be displayed.

6.2.1.3 Disk

This screen supplies us with information about disk space usage by this camera.
To access this feature, click on the Disk tab, as shown in the picture below:

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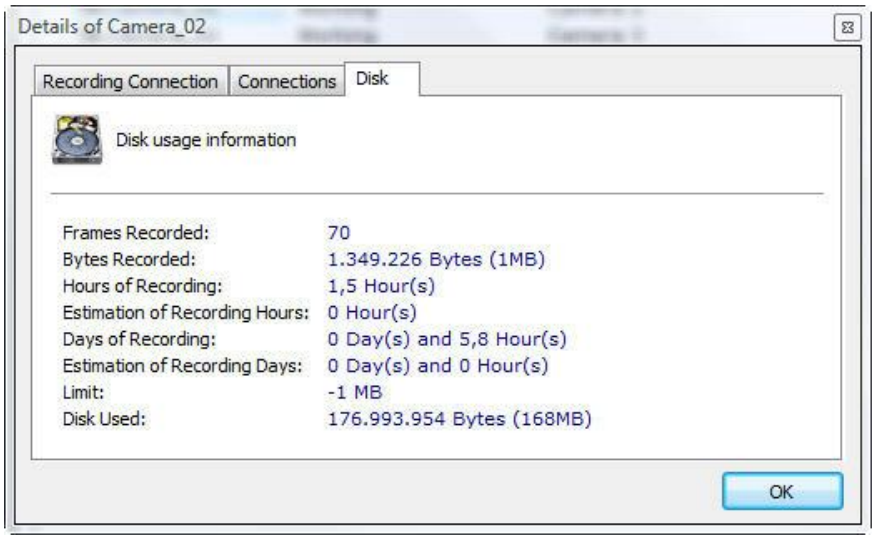

For a better understanding of all of these items, read the topic about Disk Management on page How to configure the Disk Management

- **Photos recorded**: The number of photos recorded by the camera since its activation or modification of the parameters.
- **Bytes recorded**: The number of bytes recorded by the camera since its activation or modification of the parameters.
- **Hours of recording**: Hours of recording stored in disk.
- **Estimated hours of recording**: Estimation of the number of hours of recording.
- **Days of recording**: Days of recording stored in disk.
- **Estimated days of recording**: Estimation of the number of days of recording.
- **Limit**: Limit allocated for recording of images of the camera.
- **Disk used**: Disk space used by the images of the camera.

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Chapter VII

7 Alerts and Events

The Digifort System offers a series of alerts and alarms that can help to monitor the normal operation of a set of cameras and the server itself. These alerts are configured by the system's administrator, according to the individual needs of each solution, and can be modified at any moment whenever a new need appears.

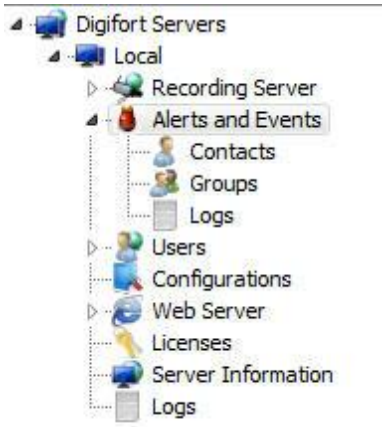
The functions of alerts and events allows Digifort to send e-mail or SMS messages to a list of users that was previously registered in the system each time some event Programmed by the administrator occurs. An event can be, among others, a failure in the communication of the camera with the server, a failure in the recording of data, a motion alert or an alert associated with an external electrical device. All of the alerts are also registered in a log file for later consultation and analysis.

The alerts and alarms are activated immediately following their configuration, making it unnecessary to paralyze the system to accomplish a configuration. An alert can be made for the entire system or for a specific camera.
The monitoring of these alerts is the responsibility of the person to whom the administrator delegated the control.

The lack of interest in checking up on abnormalities detected and informed by the system is considered a serious failure, putting security as a whole at risk.

7.1 How to access the Alerts and Events

To access the alerts and events, click on the item Alerts and Events in the Configurations Menu, as shown in the picture below:



This area of the system is divided into three parts, the contacts register, the contact groups register and the log configuration.

7.1.1 How to configure the contacts

Contacts are system units that are responsible for alert e-mail messages from the system. In other words, contacts are people who are registered in the system with information such

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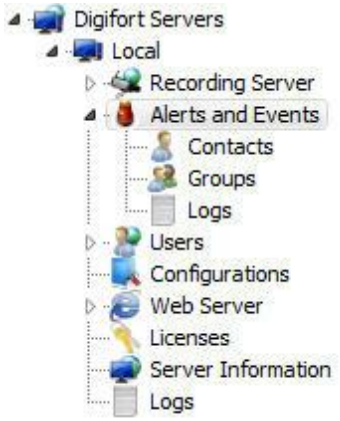
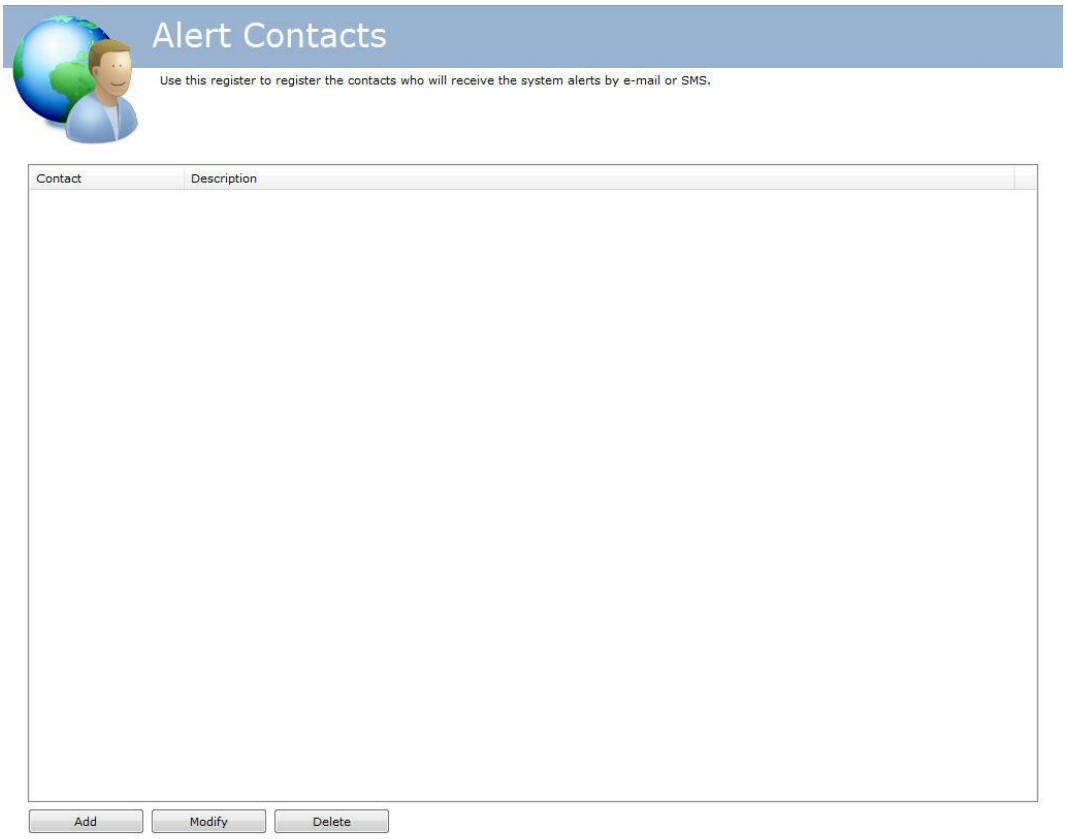
as name, telephone and e-mail address. By way of this information, Digifort is able to contact them.

Digifort sends e-mail messages not only to a contact, but also to groups of contacts.

To access the contacts register, click on the item Contacts, as shown in the picture below:



Once this is done, the contacts register will be displayed on the right, as shown in the picture below:



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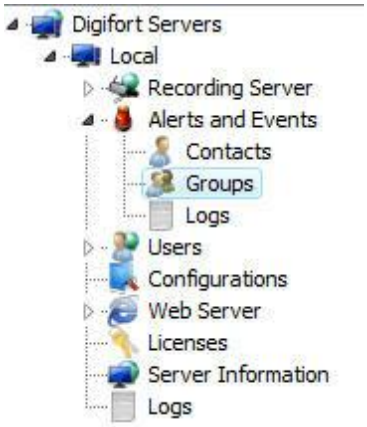
To add a contact, click on the **Add** button. To modify a contact, select it and click on the **Modify** button. To exclude a contact, select it and click on the **Exclude** button.

7.1.2 How to configure the contact groups

The creation of contact groups is necessary, since Digifort sends e-mail notifications not only to a contact, but also to a group of contacts.

To access the contact groups register, click on the item Groups, as shown in the picture below:



Once this is done, the group register will be displayed at the right, as shown in the picture below:

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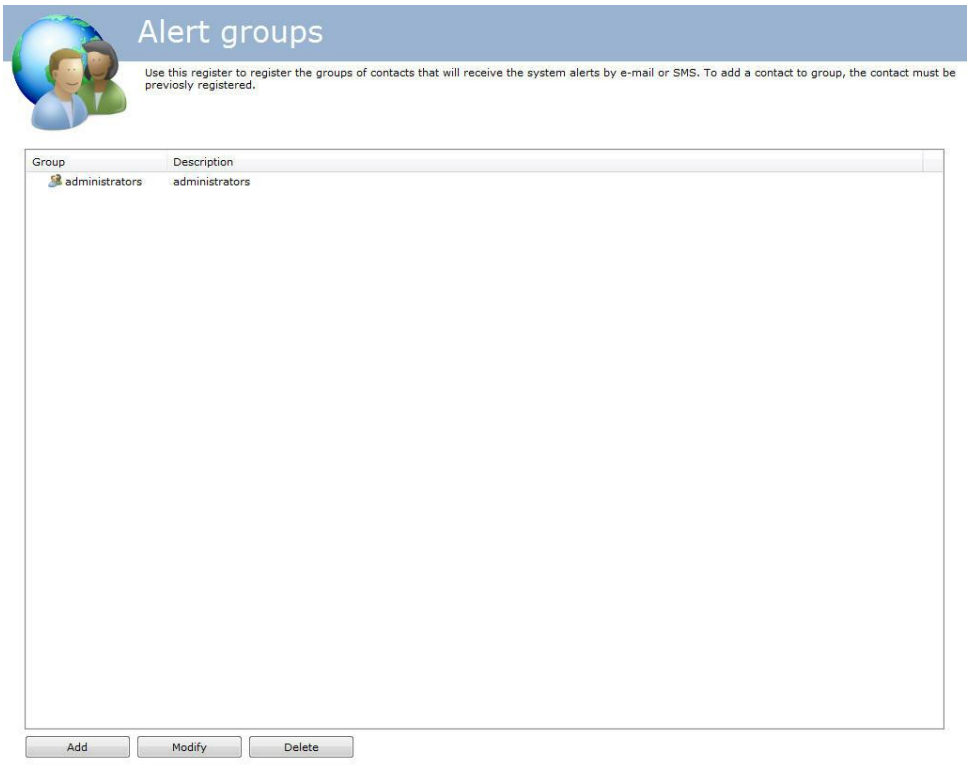
Alert groups
Use this register to register the groups of contacts that will receive the system alerts by e-mail or SMS. To add a contact to group, the contact must be previosly registered.
Group
Description
administrators
administrators
Add
Modify
Delete

To add a contact group, click on the **Add** button. To modify a contact group, select it and click on the **Modify** button. To exclude a contact group, select it and click on **Exclude**.

7.1.3 How to configure the event logs

The event logs register the events of failure of communication with the cameras and failures in the recording in disk of images coming from the cameras for later visualization and analysis by the system administrator.

In addition to registering occurrences in the log, it's also possible to execute some actions defined by the administrator, such as the sending of notification e-mail or execution of alarm sounds for the operator, for example. To learn how to do this confiration see How to configure the contact groups

To access this feature, click on the item Logs, as shown in the picture below:

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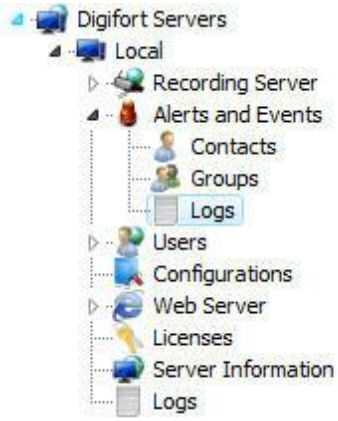
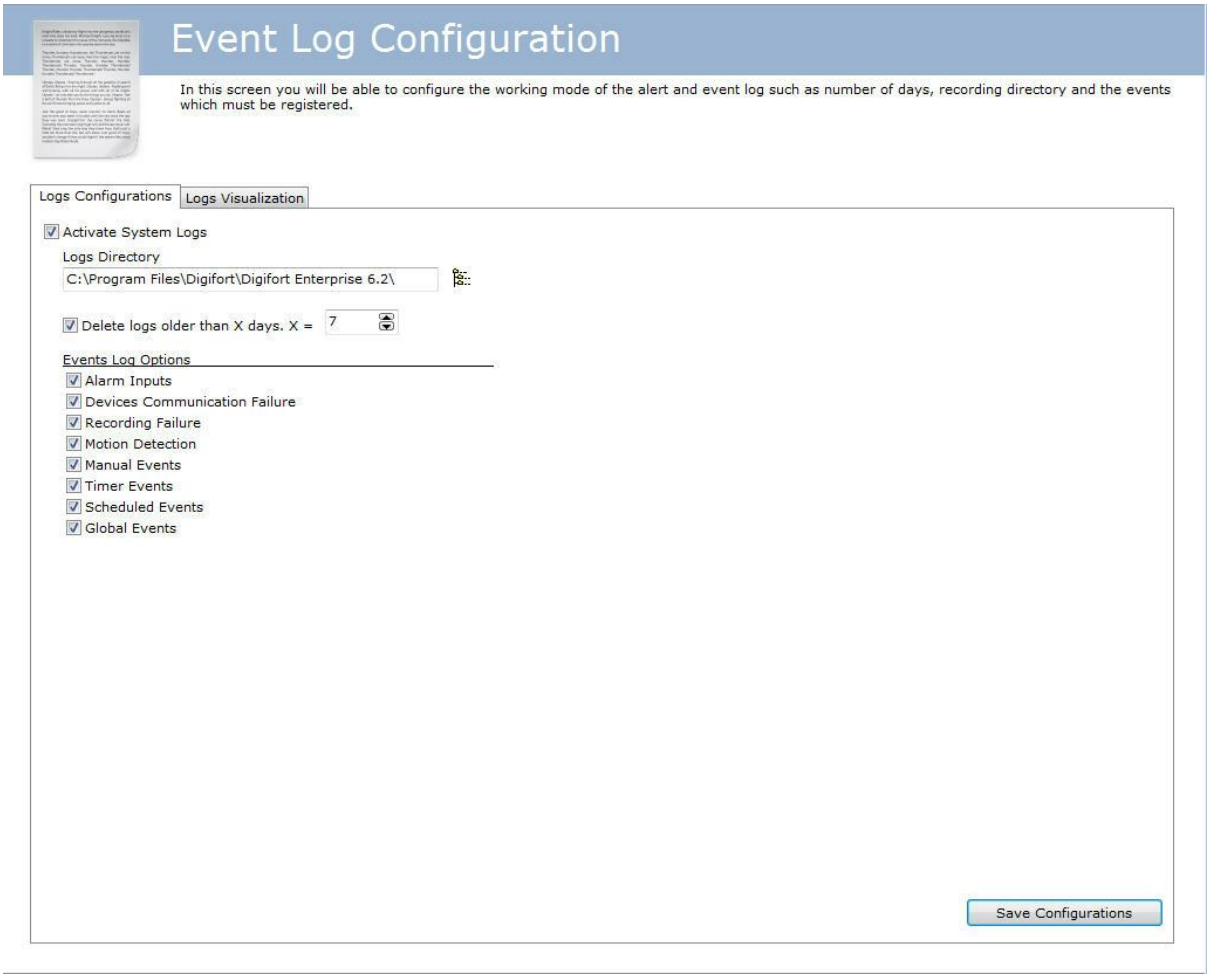


Once this is done, the screen for configuration of alert and event logs will be displayed at the right, as shown in the picture below:


Event Log Configuration
In this screen you will be able to configure the working mode of the alert and event log such as number of days, recording directory and the events which must be registered.
Logs Configurations
Logs Visualization
Activate System Logs
Logs Directory
C:\Program Files\Digifort\Digifort Enterprise 6.2\
Delete logs older than X days. X =
7
Events Log Options
Alarm Inputs
Devices Communication Failure
Recording Failure
Motion Detection
Manual Events
Timer Events
Scheduled Events
Global Events
Save Configurations

7.1.3.1 Activate system logs

Activates Digifort's alert and event logs.

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7.1.3.2 Logs Directory

Selects the directory in which the alert and event logs will be saved.

7.1.3.3 Eliminate logs older than X days

Eliminates old logs, specified by the informed number of days.

7.1.3.4 Event log options

7.1.3.4.1 Failure in communication with the devices

Logs the failures of communication with the cameras

7.1.3.4.2 Failure in recording

Logs the failures in recording in disk of images coming from the cameras.

7.1.4 How to visualize the event logs

To learn how to visualize the event logs, see How to visualize the event logs

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Chapter VIII

8 User administration

A security system really only works if it has functions and administration capable of making it resistant to vulnerabilities and technical problems during its operation.

The creation of users is very important for the good organization and security of the Digifort Server.

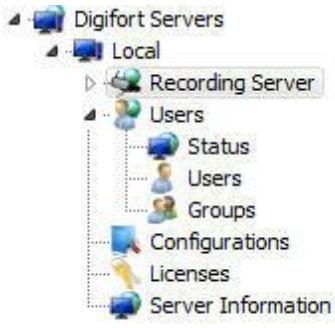
The system's administrator must define a set of users who are responsible for the monitoring and correction of events related to the operation of the Digifort System. With time, these users are automatically notified by the system regarding the conditions and abnormalities that occur and that were defined by the organization as worthy of checking out. An abnormal situation would be a camera that stopped working, or a vault that alerted about someone's undue entry, for example.

These users must be of the utmost trust to the company, as a security solution only works with trustworthy equipment and personnel.

Digifort Explorer offers the administration of up to eight users, the user admin, which comes previously registered, with all access rights and that cannot be removed, and seven other users to be created.
The user administrator of Digifort is divided into two parts: Status, where the activity of users in the server can be monitored, and Users, where system users can be included, modified and excluded from the system.

8.1 Administrating users

To access the area of user administration, locate the **Users** item in the Configuration Menu of the server to be administrated and give a double-click. The item will be expanded, showing the Status and Users options, as shown in the picture below:



8.1.1 Monitoring user activity

This feature is very important for the security of the server, since logged-in users' activity is monitored here. If the user is taking an undue action, he can be disconnected or blocked.

To access this feature, locate the Status item in the Users item in the Configurations Menu

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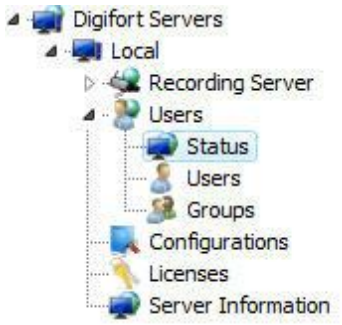
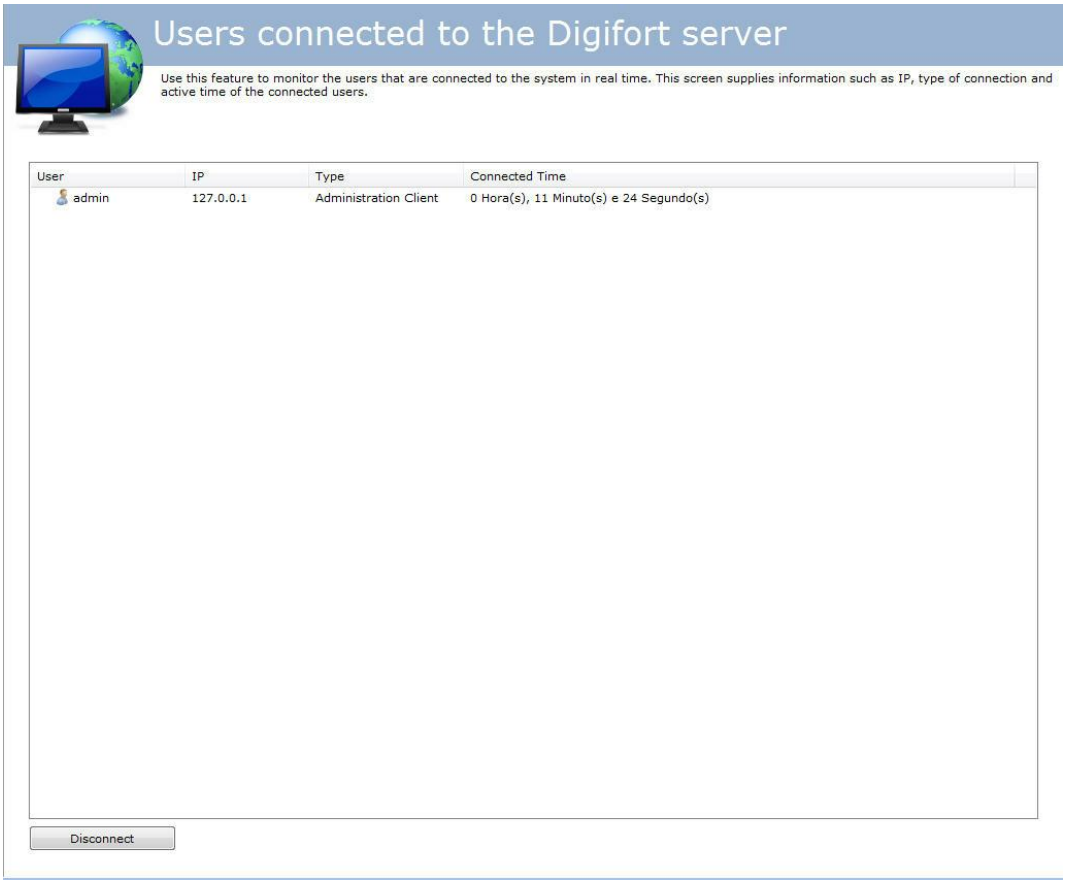
of the server, as shown in the picture below:



Once this is done, the system user activity screen will be opened on the right, as shown in the picture below:


Users connected to the Digifort server
Use this feature to monitor the users that are connected to the system in real time. This screen supplies information such as IP, type of connection and active time of the connected users.
User
IP
Type
Connected Time
admin
127.0.0.1
Administration Client
0 Hora(s), 11 Minuto(s) e 24 Segundo(s)
Disconnect

All presently logged-in users of the system are displayed, showing information such as user name, IP address, server access type, and connection time.

To disconnect a user, select the user and click on the **Disconnect** button.

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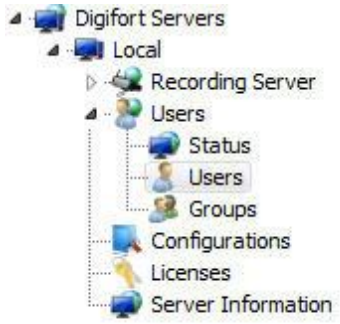
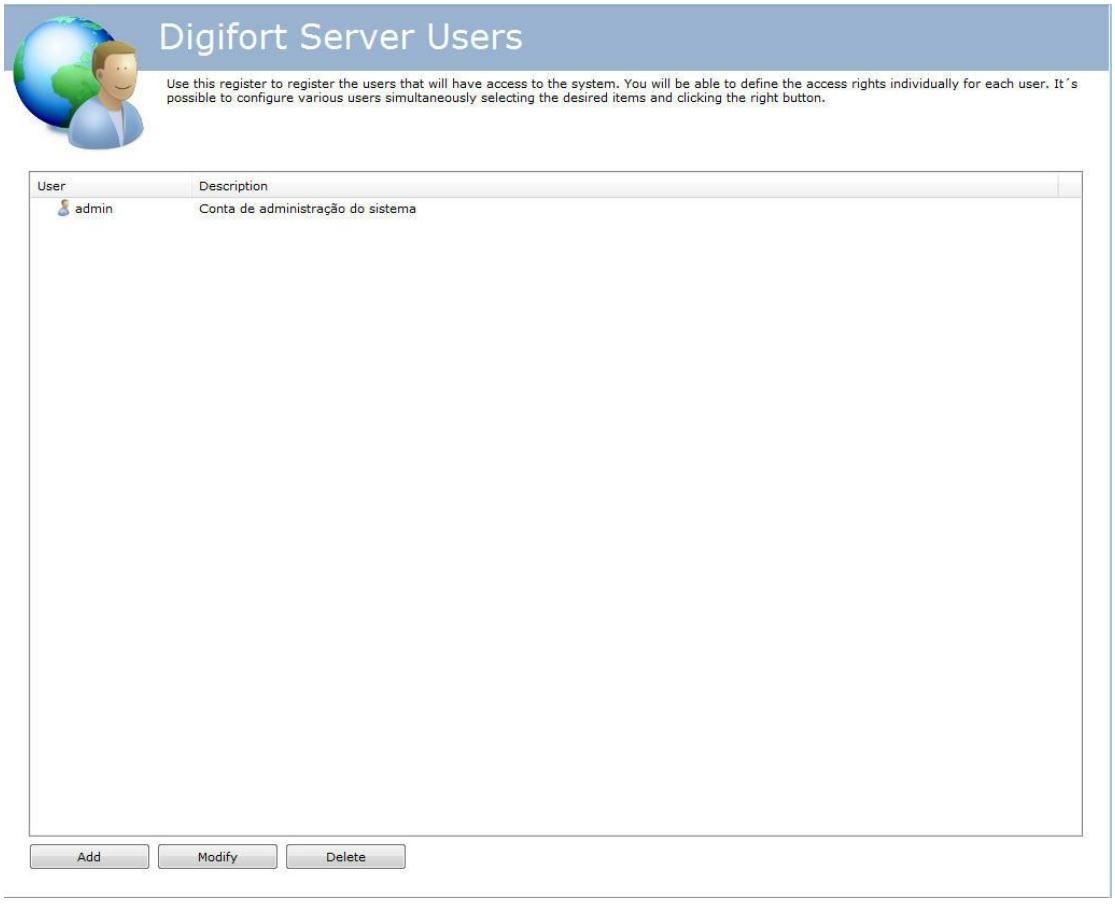
8.2 Adding, modifying and excluding users

To access the user administration, locate the Users item in the Configurations Menu of the server, as shown in the picture below:



Once this is done, the user administration screen will be opened on the right side, as shown in the picture below:


Digifort Server Users
Use this register to register the users that will have access to the system. You will be able to define the access rights individually for each user. It´s possible to configure various users simultaneously selecting the desired items and clicking the right button.
User
Description
admin
Conta de administração do sistema
Add
Modify
Delete

After clicking on the **Add** button, the users editing screen will be opened. Let's start by inserting the user's data, followed by the rights and, lastly, the client features.

To modify a previously registered user, select it and click on **Modify**, and alter the data as

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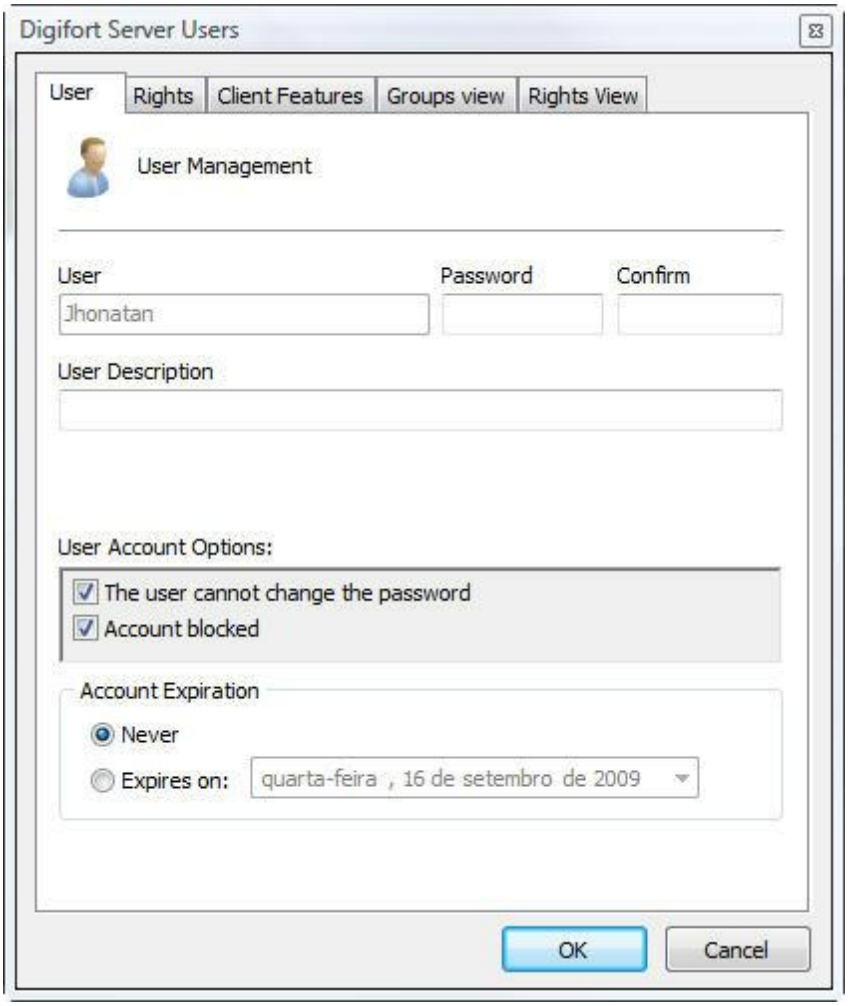
explained on the following pages.

To remove a user, select the desired user and click on the **Remove** button.

8.2.1 User data



The first step is to add a User is inform their primary data, they are:

- **User**: Name of the user. This must be informed at login in any module of the Digifort System. After being saved it cannot be modified.
- **Password**: The user's password.
- **Confirm**: Enter the user's password again.
- **Description of the user:** A brief description of the user, for aiding in his identification in the system.
- **User account options**:
  - **The user cannot change the password**: With this option marked, the user can never change his password, leaving this up to the system administrator.
  - **This user will receive alerts**: With this option marked, the user will receive the configured alerts when some event occurs.

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- **Account blocked**: With this option marked, the user will not be able to authenticate himself in the system.

- **Expiration of the account:** In this parameter you can define a date upon which the user account will expire. If the user account expires, he will not be able to authenticate himself in the system. To reactivate an expired account, mark the option Never or change the expiration to a later one.
  - **Never**: The user account never expires.
  - **Expires on:** The user account expires on the specified date.

Tip

The password can be left blank when registering and the user will be able to register his password during his first access to the system.

8.2.2 User rights

After filling in the main user data, the access rights must be configured. As default, the rights are configured for a surveillance user profile, that is, the user will only be able to carry out the system operations of live surveillance and video playback.

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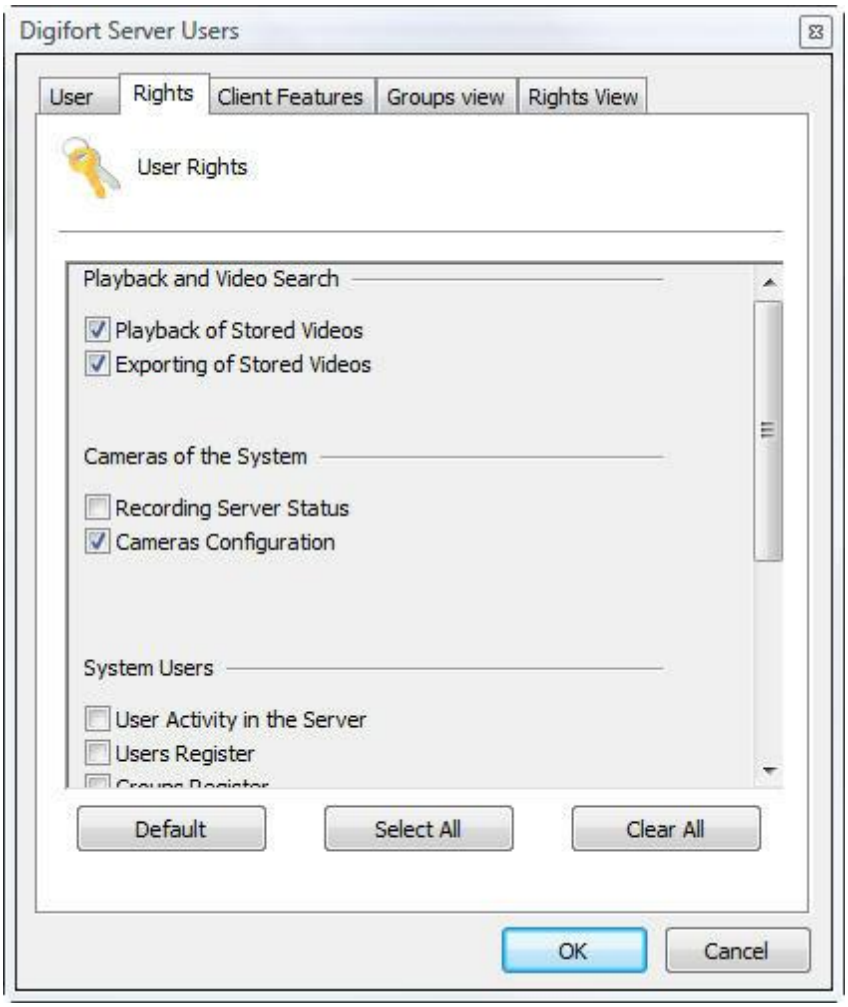

- **Playback of stored videos:** Allows the user to visualize previously recorded videos. To learn how to play video back, see the manual of the Surveillance Client.
- · **Exportation of stored videos**: Allows the user to export previously recorded videos for backup or visualization in another workstation. To learn how to export videos, see the manual of the Surveillance Client.
- **Motion search**: Allows the user to carry out motion searches in stored videos. Motion search helps in retrieval of events in a scene. To learn about motion search, consult the manual of the Surveillance Client.
- **Configuration of cameras**: Allows the user to configure the cameras to be managed by the system.
- **Status of the recording server**: Allows the user to check the general status of the system and the individual status of each camera, getting information like used disk space, frames per second received, activity time, etc.
- **Allow PTZ control**: Allows the user to control movable cameras with PTX functions.
- **Allows locking of the PTZ controls**: Allows the user to lock the movement of the camera by priority.
- **Alarm device configurations**: Allows the user to access the configurations of alarm devices.
- **Alarm device status**: Allows the user to access the monitoring of the status of the alarm devices.

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- **Alert contacts register**: Allows the user to access the alert contacts register. The contacts must be registered to receive notification of system abnormalities of the occurrence of events.
- **Alert groups register**: Allows the user to access the alert groups register. Alert groups have the purpose of grouping alert contacts aimed and categorizing and sending notifications to various contacts.
- **Alert log configurations**: Allows the user to access the configurations of the alert logs. Alert logs register all alerts that occur in the system such as the setting off of a siren, for example.
- **Alert log visualization**: Allows the user to visualize the alert logs.
- **Permit activation of manual events**: Allows the user to activate miscellaneous manual events like, for example, a siren via Digifort.
- **Server configurations**: Allows the user to modify the system's global configurations, such as limit of connections with the server, limits of recording in disk, etc.
- **IP Filters**: Allows the user to access the IP filters.
- **Server information**: Allows the user to check information about the functioning of the server, getting information such as network input and output traffic.
- **Server licences**: Allows the user to access the server licenses configurations.
- **Server log configu**ration: Allows the user to access the server log configurations. Among other things, these logs register system errors and user actions in the system.
- **Visualization of server logs**: Allows the user to access the configurations of the server logs.
- **Surveillance screenstyles**: Allows the user to create his own surveillance screenstyles.
- **Web server configuration**: Allows the user to access the configurations of the Web server. The Web server Web makes it possible to carry out surveillance of cameras and alarms via any Internet navigator.
- **User register**: Allows the user to access the user register.
- **User activity in the server:** Allows the user to monitor the activity of the users in the server. To learn how to use this feature, see . Monitoring user activity

Tip

User rights are categorized in the same order as the Configurations Menu.

8.2.3 Surveillance Client Features

The configuration of the features of the Surveillance Client is very important for the security of a site. This feature offers tools that affect the person who monitors the cameras, causing other factors to impair the attention of the operator.

To access these tools, click on **Client features.**

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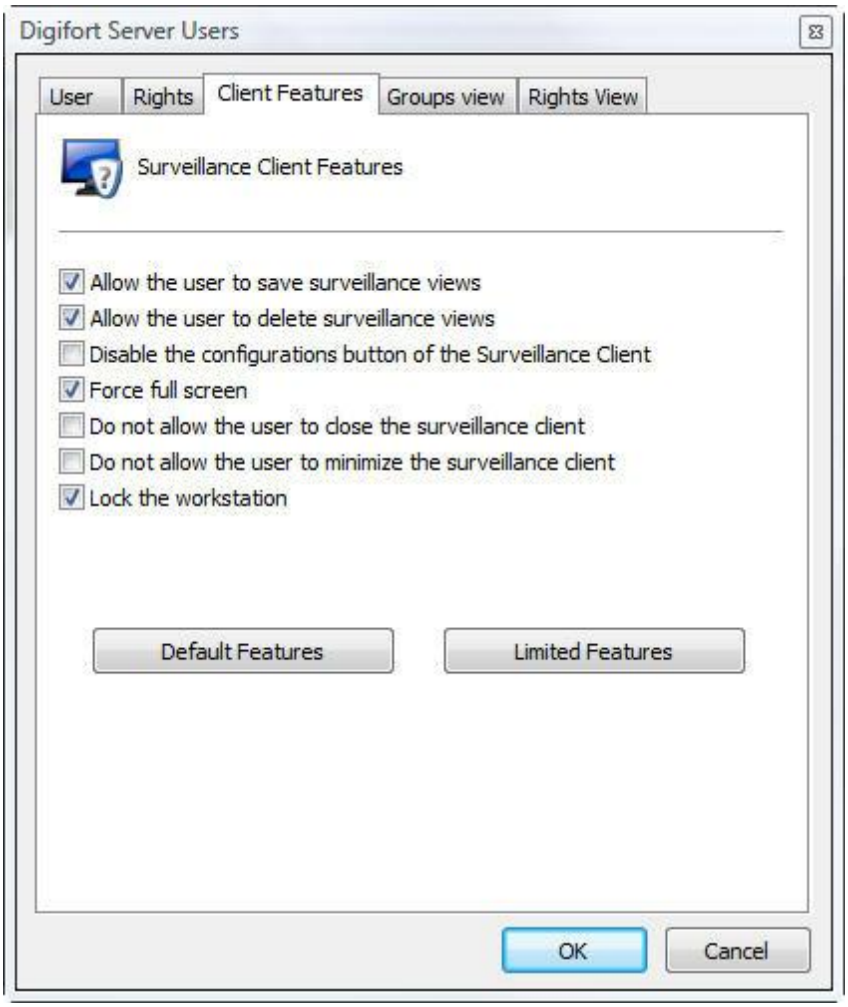

- **Allow the user to save surveillance views**: Allows the user to create his surveillance views. To learn more about the creation of surveillance views, consult the manual of the Surveillance Client.
- **Allow the user to eliminate surveillance views**: Allows the user to eliminate surveillance views.
- **Disable the configurations button on the surveillance client**: Blocks user access to the configurations of the surveillance client. To learn about the configurations of the Surveillance Client, consult the manual of the Surveillance Client.
- **Don't allow the user to close the surveillance client**: Blocks closing of the Surveillance Client by the user.
- **Don't allow the user to minimize the surveillance client**: Blocks minimization of the Surveillance Client by the user, keeping it locked to the system.
- **Blocks the workstation**: Blocks the user's workstation, not allowing the use of functions such as CTRL + ALT + DEL, ALT + TAB, and any other command that could terminate the Surveillance Client.

8.2.4 Groups Inquiry

Allows viewing of the groups in which the user is registered.

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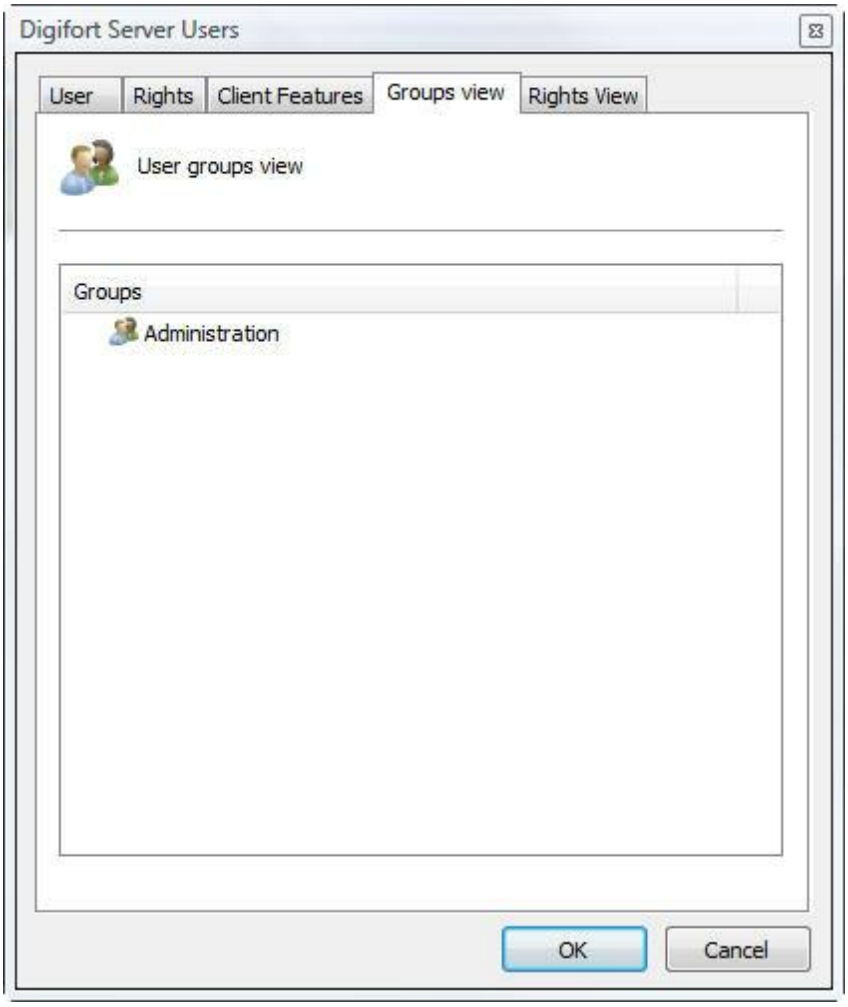

8.2.5 Rights Inquiry

This screen allows viewing of the rights given to the user, such as, for example, the right to view and playback cameras and maps.

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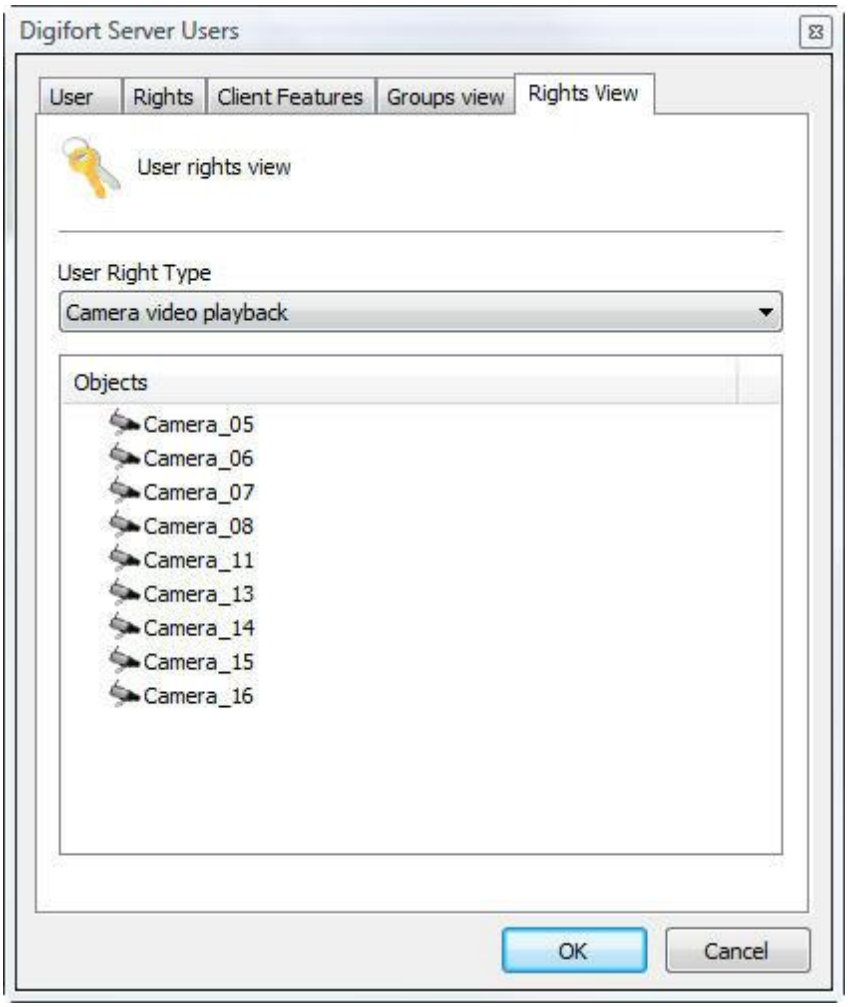

This screen offers the following functions:

- **Type of right**: List of the types of rights given to the user.
- **Objects:** List of the objects related to the given right

8.3 User administration functions

The Digifort's User Administrator offers rapid access to the most common user configurations. In the user register, select the desired user and click on the right button. A menu will be opened, as shown in the picture below:

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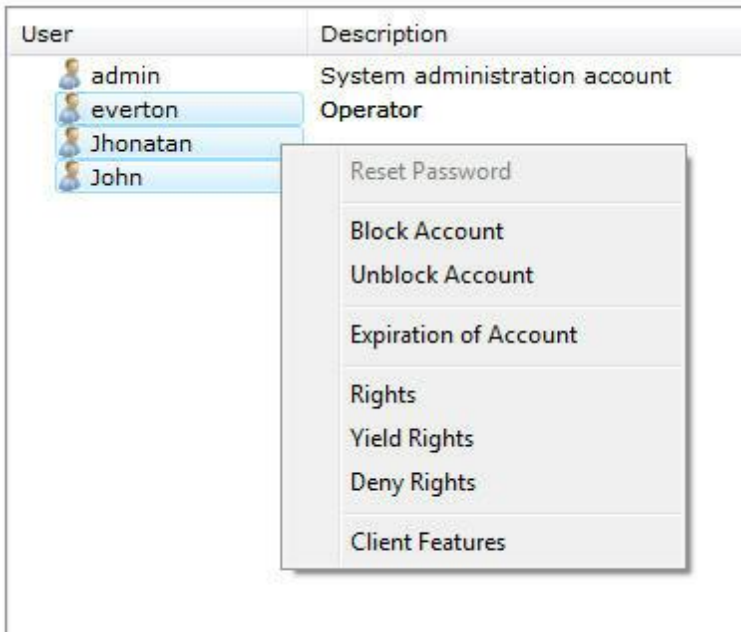

8.3.1 Reset password

Resets the password of the selected user, leaving it blank. For security reasons, this option will be available selecting one user at a time.

8.3.2 Block account

Blocks the account of selected users, making them unable to authenticate in the system. com que eles não consigam autenticação no sistema.

8.3.3 Unblock account

Unblocks the account of selected users, making them able to use the system again.

8.3.4 Account expiration

Defines an expiration date for the accounts of the selected users. After the expiration date, the user can no longer authenticate himself in the system..

8.3.5 Rights

Opens the user rights screen. To learn about user rights, see Login hours

8.3.6 Give rights

Opens the user rights screen giving the selected rights. If no right is selected, but some user has it, the rights defined here will be added. somados.

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8.3.7 Deny rights

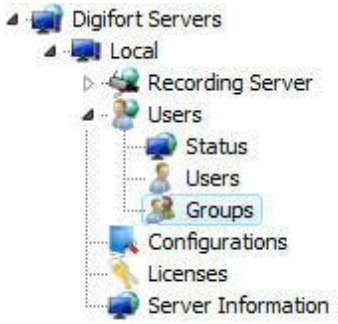
Opens the user rights screen denying the selected rights.

8.3.8 Features

Opens the features screen of the Surveillance Client. To learn about this feature, see Surveillance Client Features.

8.4 Adding, altering and excluding Groups

To access the group management feature, locate Groups in User in the server's Configurations menu as shown in the picture below:



The 'Groups' option was created to facilitate user management within the system.

Once this is done, the Groups management screen will open on the right as illustrated in the picture below:

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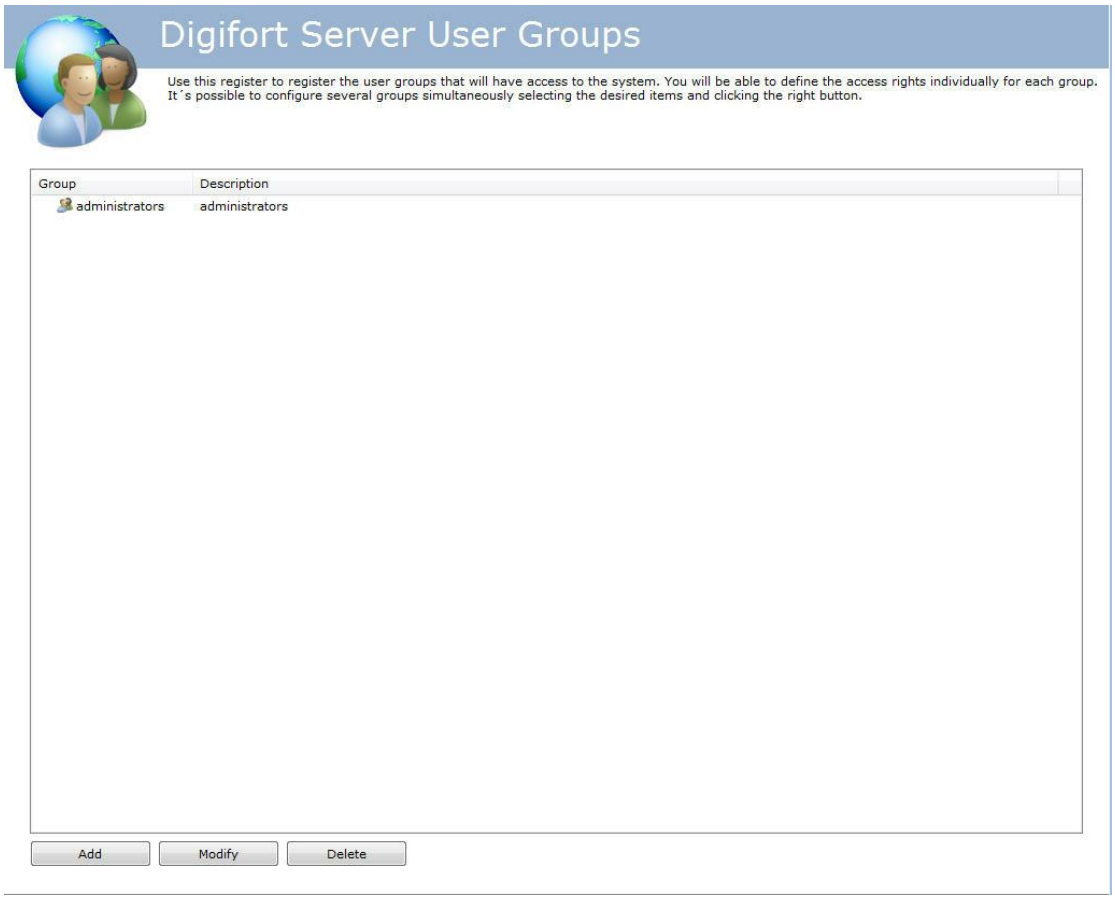
Digifort Server User Groups
Use this register to register the user groups that will have access to the system. You will be able to define the access rights individually for each group.
It´s possible to configure several groups simultaneously selecting the desired items and clicking the right button.
Group
Description
administrators
administrators
Add
Modify
Delete

By clicking on the Add button, the group edition screen will open up. Let's start by introducing a group, moving on to the entitlements and then the features.

To change an already registered user, select it and click on Change and then change the data as explained throughout the manual.
To remove a user, select the user you wish to remove and click on the Remove button.

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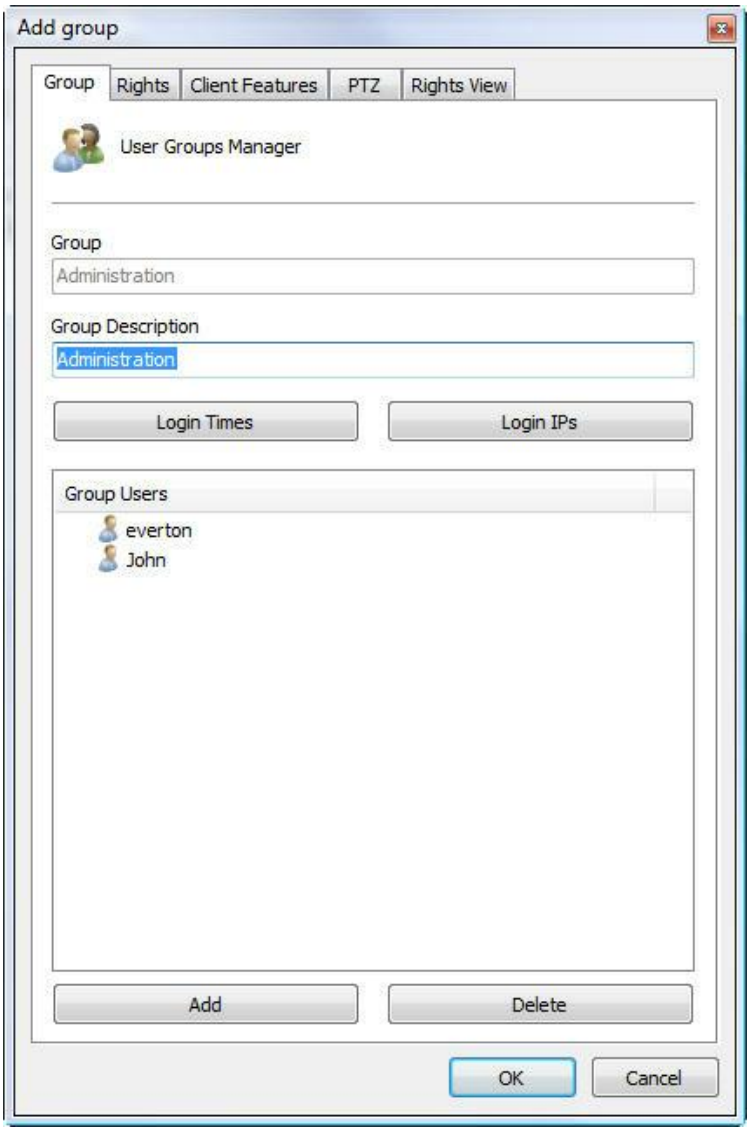

When adding a group, the first step is to indicate its main data, i.e.:

- Group: Username, which must be indicated when logging in to any module of the Digifort System. Once saved it cannot be altered.
- Group description: A brief description of the user to help identify him in the system.
- Login times**:** To learn about this feature refer to Login Times
- Login IPs: To learn about this feature refer to Login IPs
- Group Users: List of users in the group. To add a user to the group, simply click on **Add** and a window will open so that you may select the user to be added as shown in the picture. To remove a user, simply select it from the list and click on the **Remove** button.

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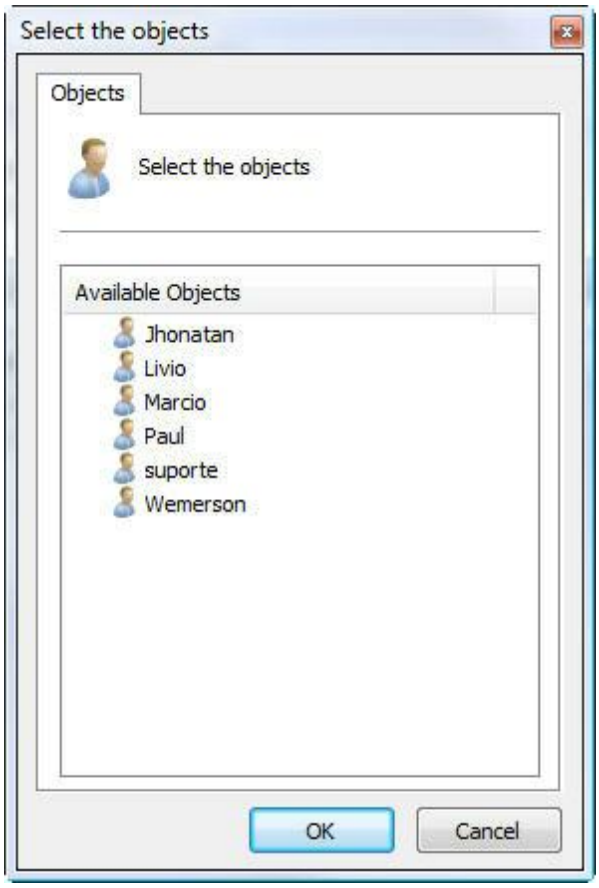

8.4.1 Group rights

After filling in the main user data, the access rights must be configured. As default, the rights are configured for a surveillance user profile, that is, the user will only be able to carry out the system operations of live surveillance and video playback.

As configurações de direitos para o grupo é igual a configuração de direitos de usuário.

8.4.2 Surveillance Client Features

The configuration of the features of the Surveillance Client is very important for the security of a site. This feature offers tools that affect the person who monitors the cameras, causing other factors to impair the attention of the operator.

The configuration of the Resources of the Surveillance Client for the group is the same as the configuration of the Resources of the Surveillance Client of the user. To learn how to configure the Resources of the Surveillance Client of the group see Surveillance Client Features.

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8.4.3 Rights Inquiry

This screen allows the viewing of the rights given to the group, such as, for examplo, the right of viewing and playback of cameras and maps.

The configuration of the Rights Inquiry for the group is the same as the configuration of the Rights Inquiry of the user. To learn how to configure the Rights Inquiry of the group see Rights Inquiry

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Chapter IX

9 Global Configurations

This area of the system is reserved for adjustment of the global configurations of the server.

Global configurations are parameter which, once configured, will affect the entire functioning of the system. afetarão todo o funcionamento do sistema.

9.1 General Configurations

To access this area, click on the Configurations item in the Configurations Menu, as shown in the picture below:

Once this is done, the general system configurations screen will be opened at the right, as shown in the picture below:

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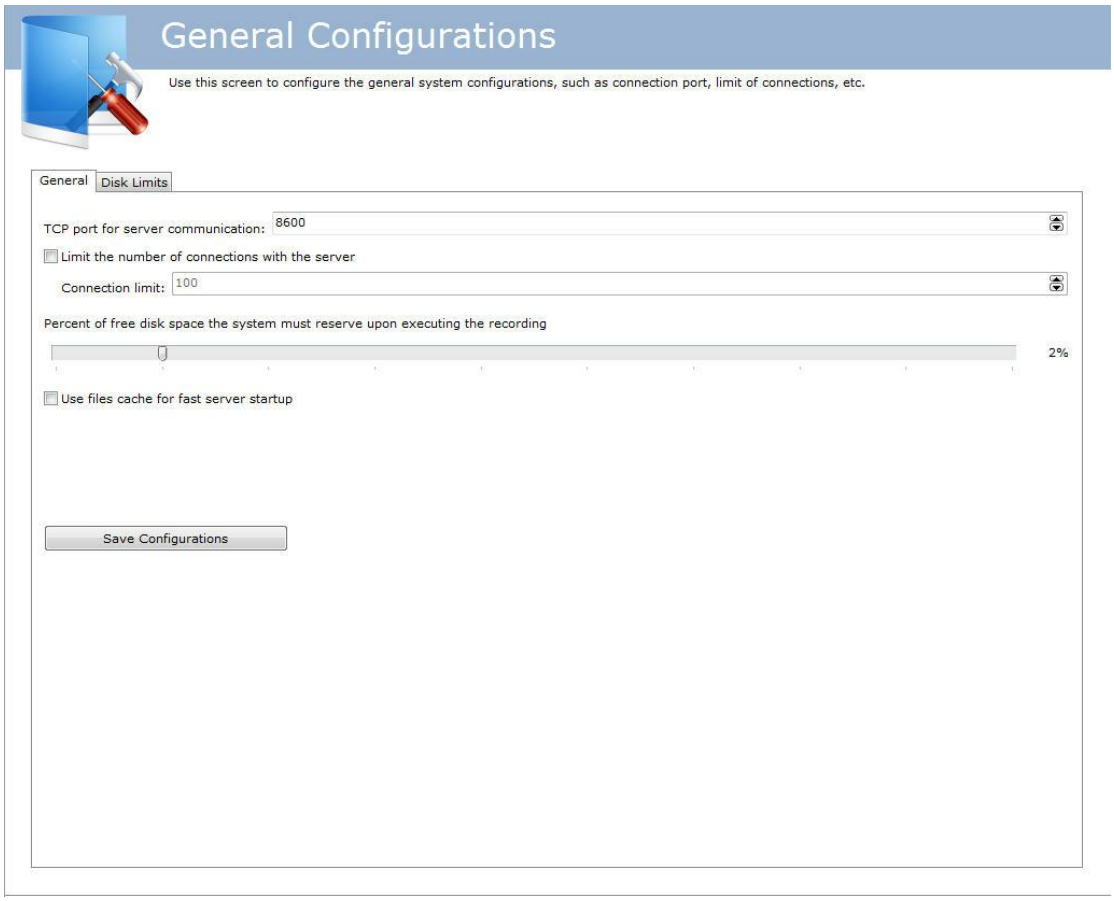
General Configurations
Use this screen to configure the general system configurations, such as connection port, limit of connections, etc.
General
Disk Limits
TCP port for server communication:
8600
Limit the number of connections with the server
Connection limit:
100
Percent of free disk space the system must reserve upon executing the recording
2%
Use files cache for fast server startup
Save Configurations

- **Send periodic e-mail with server report:** Sends e-mail with a server report periodically to the specified alert group in the specified time interval. This report contains information such as user accesses to the system and recording status.
- **TCP communication port with the server:** Communication port by which the Surveillance Client and the Administration Client will communicate with the server. After modifying this configuration, it's necessary to modify the communication port of the server register of the Administration Client and the Surveillance Client. To learn how to carry out this configuration in the Surveillance Client, see How to configure the servers to be administrated. To learn how to modify the port in the Surveillance Client, consult its manual..
- **Limit the number of connections with the server**: Limits the number of connections with the server. This value must be informed very carefully, as the number of connections opened with the server does not mean the number of logged-on users, but rather the number of connections established with the server and the cameras. For example, if a user is in the surveillance client, visualizing four cameras at the same time, then five connections with the server are made, one connection of the surveillance client and four other connections with the cameras.
- **Percentage of free disk space that the system must maintain while recording**: Enter here the percentage of disk space that you want to reserve for application softwares other than Digifort. For example, if an 80GB rigid disk is used, with 2% of free space, 16GB will not be used by Digifort for recordings, this being directed to other software, such as the operating system. This limit is also applied in "Disk limits". To learn how to create a disk limit, see Disk Limits

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After adjusting the configurations, click on the Save Configurations button so that no modification is lost.

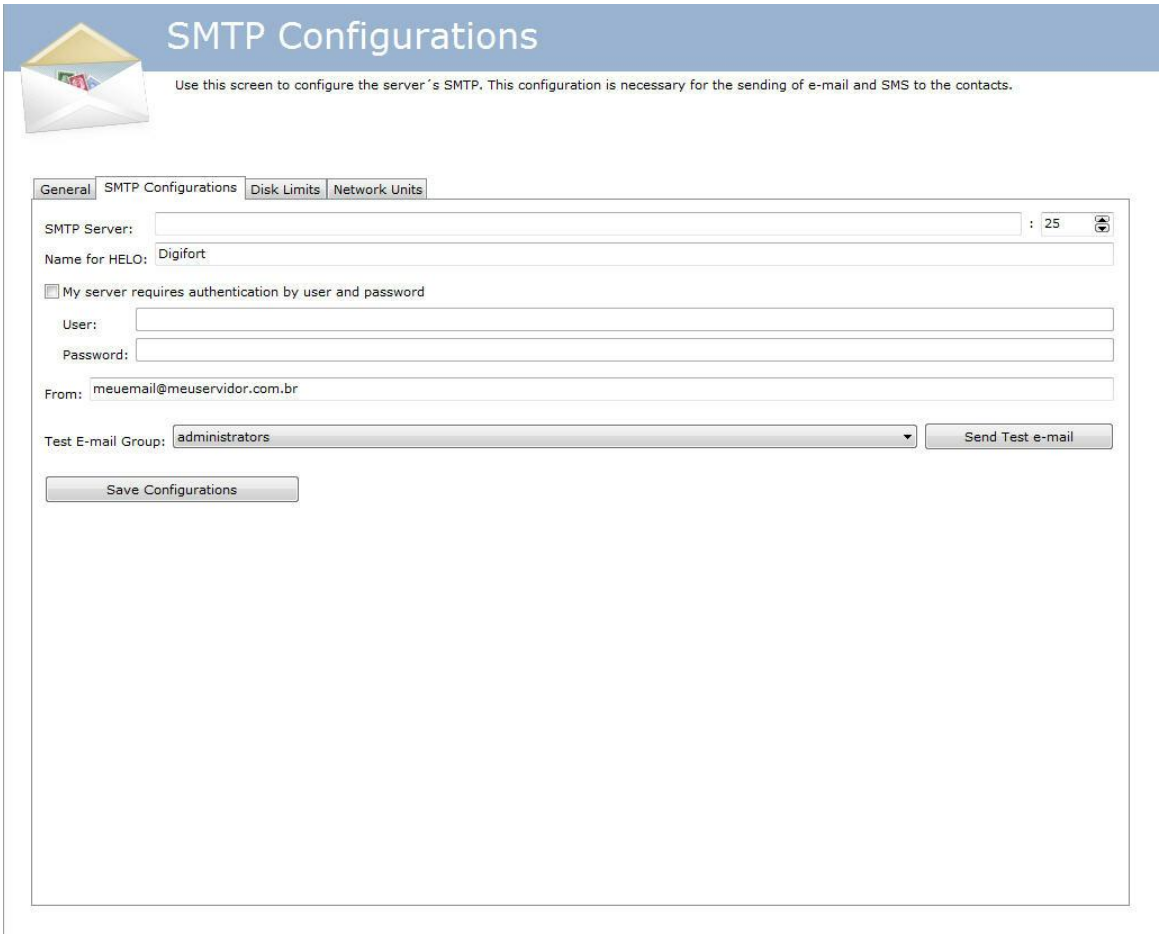
Important

The percentage of free disk space reserves a disk space for application software other than Digifort. As default, it's configured with 2%. If you have a lot of space available in disk for recordings, maybe this value is very high.

9.2 STMP Configurations

The STMP configurations are used by Digifort t send notification e-mail to users. The actions for sending e-mail could be failures in communication with the cameras, for example, and must be previously configured by the administrator.

To access this feature, click on the **STMP Configurations** tab, as shown in the picture below:



- **STMP Server SMTP**: Address of the SMTP server to be used for the sending of e-mail. This parameter can be an IP, if there is an STMP server in your company, for example, or a DNS if third-party STMP servers are used.
- **My server needs authentication by user and password:** If your SMTP server needs a

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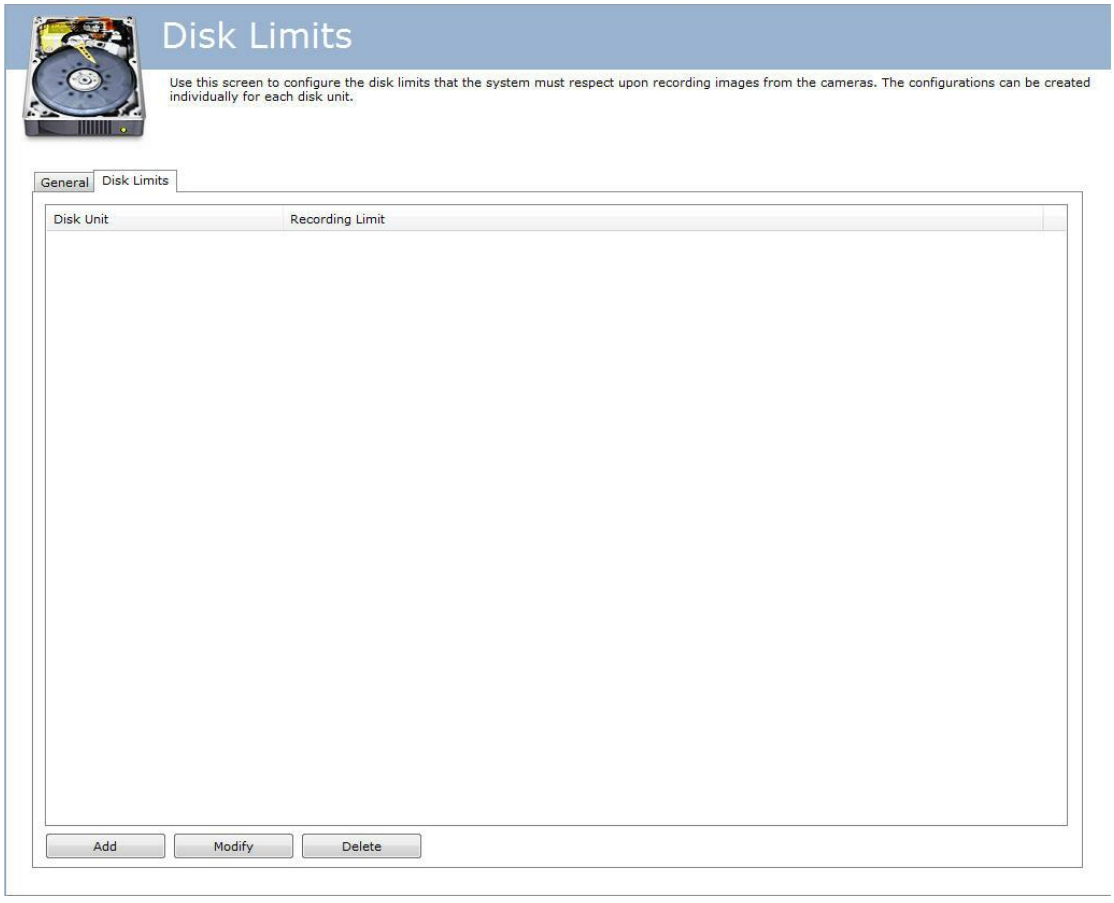
user and password for authentication for sending of e-mail, mark this option. When this option is marked, the User and Password fields will be activated and must be filled in.
  - **User:** User for authentication in the sending of e-mail messages.
  - **Password**: Password for authentication in the sending of e-mail messages.
- **From:** Sender's e-mail address. In this field, enter the e-mail address of the system administrator, for example.
- **Group for test e-mail**: Select an alert group for the sending of a test e-mail message for the specified configurations. This alert group must have been previously configured. To learn how to do this configuration see How to configure the contact groups
- **Save Configurations button:** Saves the configurations. If not pressed, no configurations will be saved after leaving this screen.

9.3 Disk Limits

In this area of the system you can define disk limits in all of your units, if you wish to maintain a cushion of free disk space.

To access this feature, click on the Disk Limits tab in the Configurations item of the Configurations Menu, as shown in the picture below:


Disk Limits
Use this screen to configure the disk limits that the system must respect upon recording images from the cameras. The configurations can be created individually for each disk unit.
General
Disk Limits
Disk Unit
Recording Limit
Add
Modify
Delete

To add a disk limit, click on the **Add** button.

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Global Disk Limit
Global Disk Limit
Configurations of Global Disk Limit
With the global disk limit configurations you can restrict the use of HD for the recording of cameras configured to record with limit of recording by hours or days.
Select the disk to impose a Recording Limit
C: []\ (238.464 MB)
Supply a Recording Limit (In MB)
5000
OK
Cancel

Select the desired disk unit and enter the number of megabytes of limit that you wish to impose.
At the end of the configuration, click on the **OK** button.

To remove a disk limit, select it and click on the **Remove** button.

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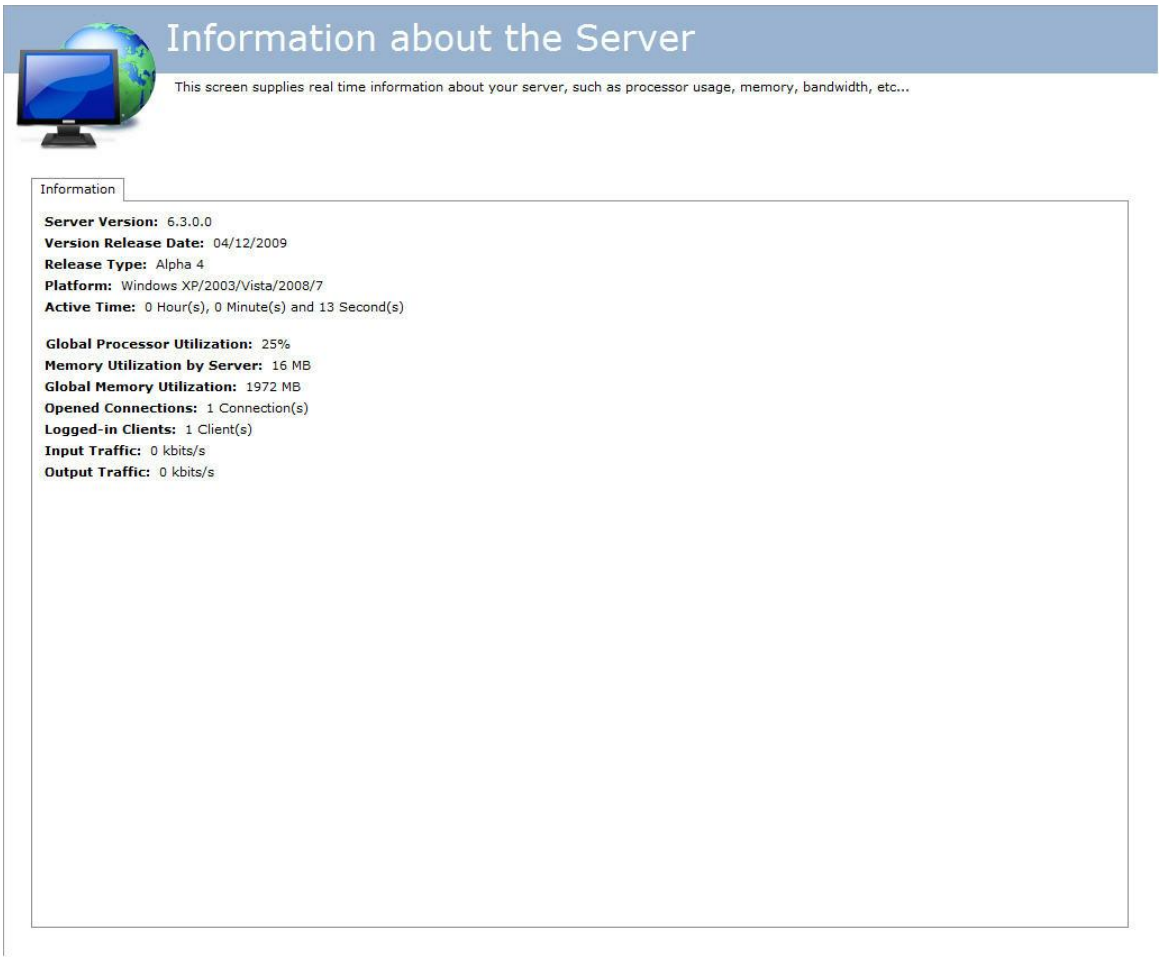
Chapter

10 Server Information

In this area of the system you will be able to accompany the performance of the server, receiving data such as processor and memory utilization, network traffic, etc.

To access this feature, click on the **Server Information** item in the Configurations Menu, as shown in the picture below:

Once this is done, a window will be opened on the right side with server information, as shown in the picture below:


Information about the Server
This screen supplies real time information about your server, such as processor usage, memory, bandwidth, etc...
Information
Server Version: 6.3.0.0
Version Release Date: 04/12/2009
Release Type: Alpha 4
Platform: Windows XP/2003/Vista/2008/7
Active Time: 0 Hour(s), 0 Minute(s) and 13 Second(s)
Global Processor Utilization: 25%
Memory Utilization by Server: 16 MB
Global Memory Utilization: 1972 MB
Opened Connections: 1 Connection(s)
Logged-in Clients: 1 Client(s)
Input Traffic: 0 kbits/s
Output Traffic: 0 kbits/s

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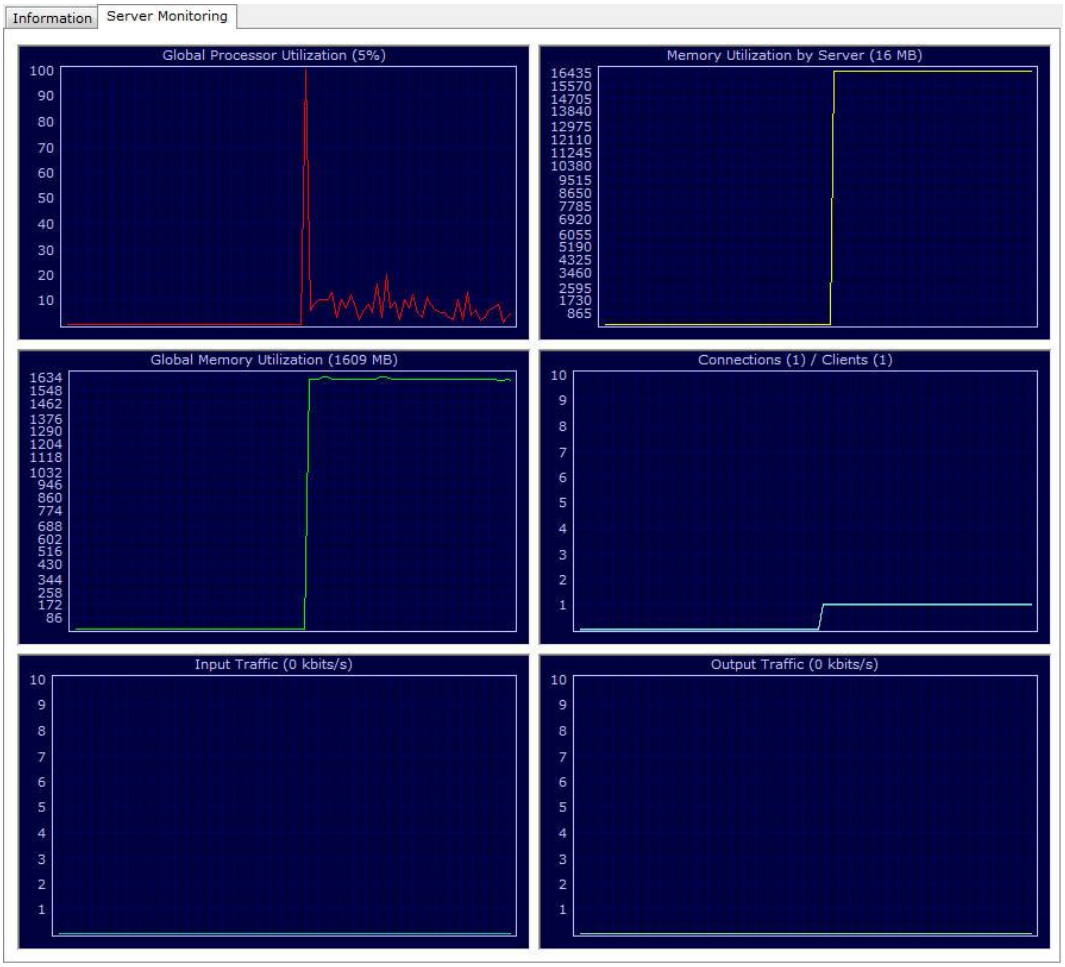
10.1 Monitoring by graphics

Digifort offers an interesting feature that makes it possible to monitor the resources used by the server in real time by way of graphics updated every second. To access this configuration, click on the **Monitoring** tab, as shown in the picture below:



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Chapter XI

11 System Logs

The logs are very important tools for an environment that involves a security system such as Digifort, as it is in these logs that all events are registered, as well as user actions that occur in the system.

This chapter of the manual will cover the system logs, that is, those in which server events are registered, as opposed to the logs of alerts and events, where events related to external devices are registered. To better understand what alert and event logs are, see How to access the Alerts and Events

11.1 How to access the system logs

To access the system logs, click on the Logs item, located in the Configurations Menu, as shown in the picture below:

Once this is done, the configuration of logs will be displayed on the right, as shown in the picture below:

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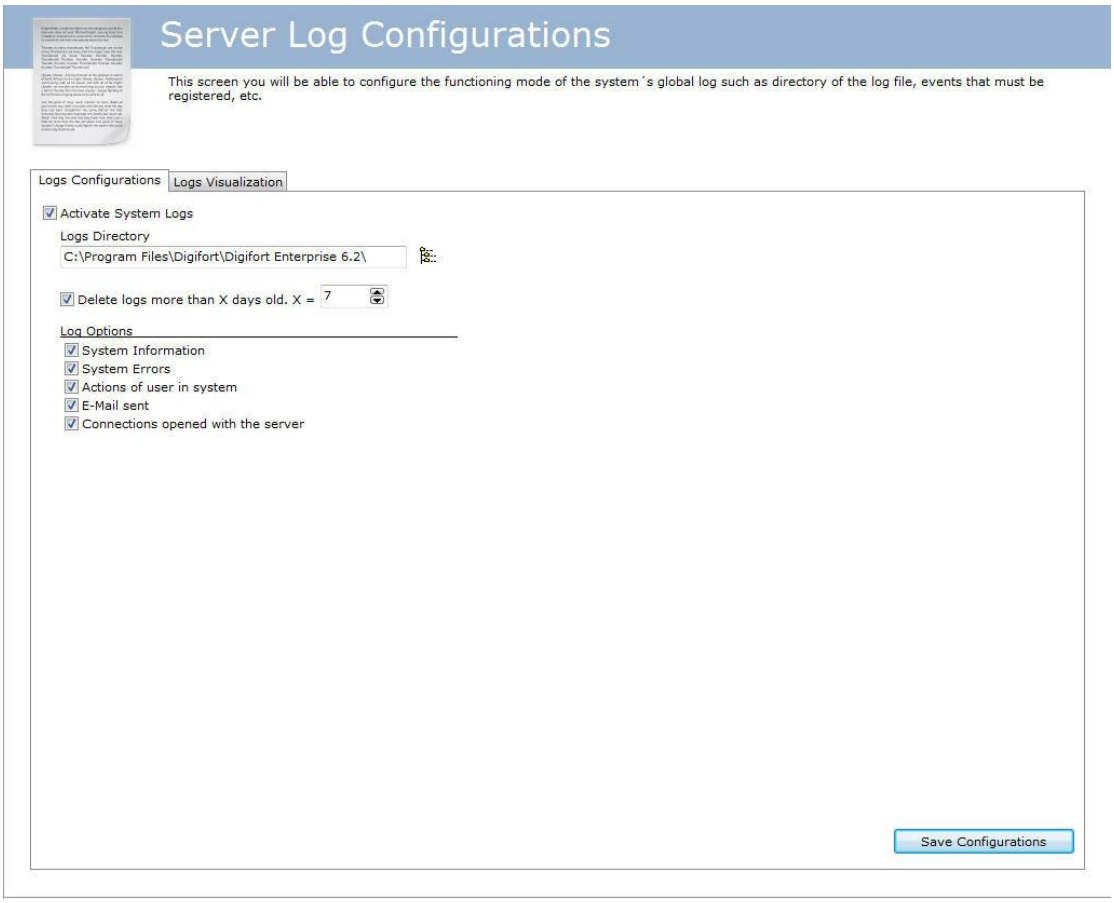
Server Log Configurations
This screen you will be able to configure the functioning mode of the system´s global log such as directory of the log file, events that must be registered, etc.
Logs Configurations
Logs Visualization
Activate System Logs
Logs Directory
C:\Program Files\Digifort\Digifort Enterprise 6.2\
Delete logs more than X days old. X = 7
Log Options
System Information
System Errors
Actions of user in system
E-Mail sent
Connections opened with the server
Save Configurations

- **Activate system logs**: Activates the alert and event logs of Digifort.
- · **Log directory**: Select the directory in which the alert and event logs will be saved.
- · **Eliminate logs more than X days old**: Eliminates the old logs, specified by the informed number of days.

- **Options of the event log:**
  - **System informat**ion: This log contains information about system functioning like, for example, the time at which the server was loaded, terminated.
  - **System errors**: This log contains information about system errors such as the incorrect execution of some system function. This log rarely receives data.
  - **System user actions:** This log contains information about system user actions like, for example, the visualization of some camera and modification of configurations.
  - **E-mail sent:** This log contains information about the e-mail messages sent by Digifort like, for example, e-mail messages about failures in recording or communication of cameras.
  - **Open connections with the server:** This log contains information about the user connection with the server, showing information such as access time and IP.
- **Save Configurations button:** Saves the configurations of system logs.

11.2 How to visualize the event logs

The visualization of logs is an auxiliary tool for the administrator when analyzing a log,

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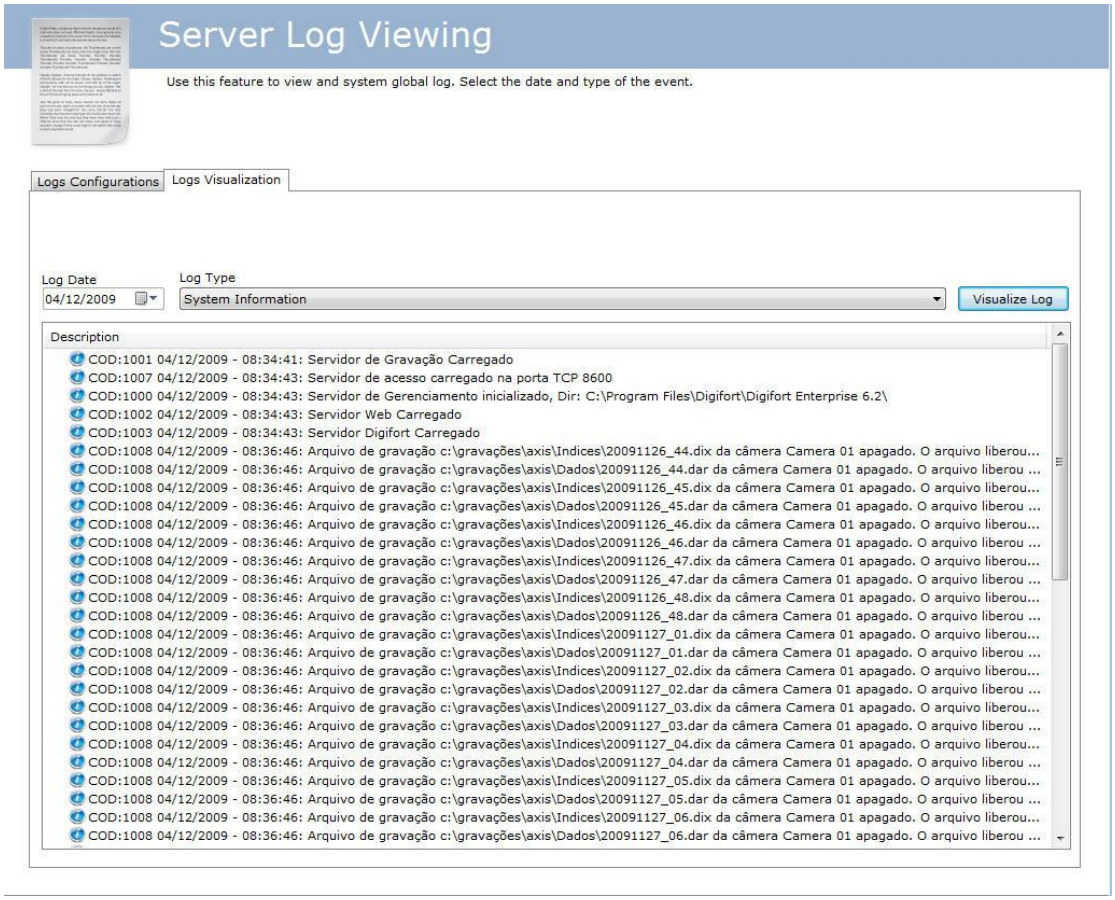
presenting a friendlier and more productive interface compared to a simple text file.

To visualize the event logs, click on the **Log visualization** tab, as shown in the picture below:



To visualize a log, select the date and type, then click on the Visualize Log button. This way the list of log registers will be filled.

Upon double-clicking on some log item, a screen will be displayed with details about the occurrence, as shown in the picture below:

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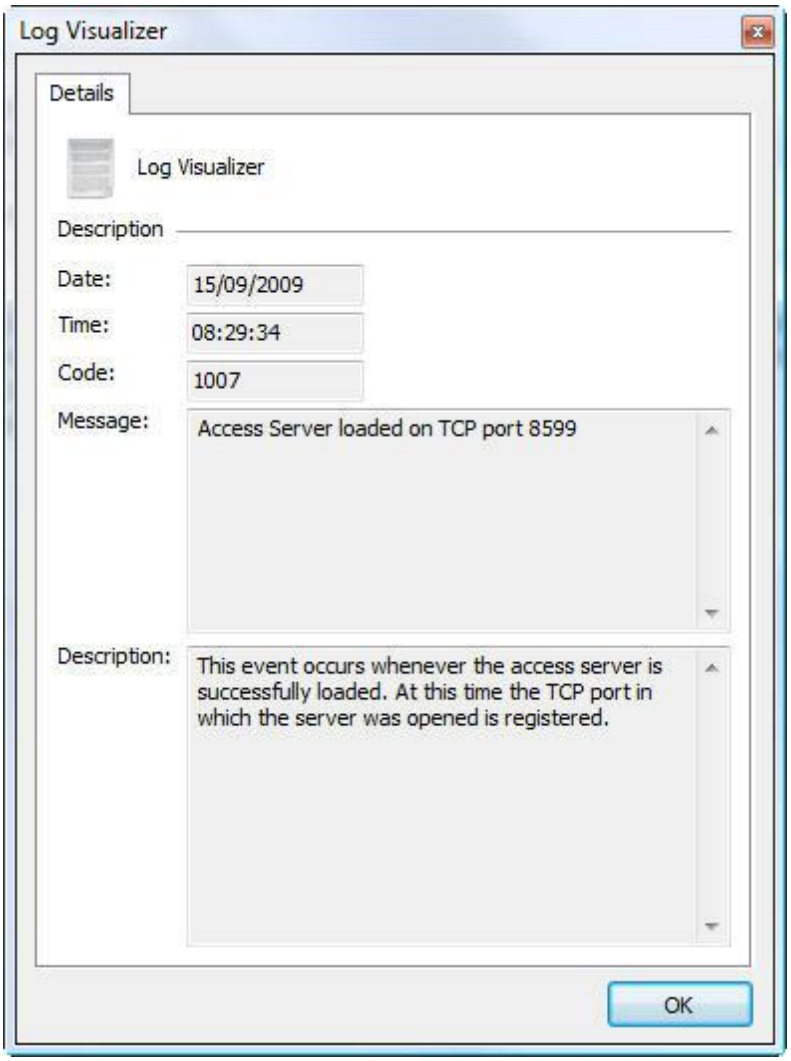

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Chapter XII

12 Web Server

Digifort is equipped with a Web server, by means of which, users can visualize cameras and play videos back locally or via Internet with the use of an Internet navigator.

It's important to point out that, for access to the Digifort Server via Internet, it's necessary to configure your router with the purpose of redirecting the server connection by way of an Internet IP and a port.

To carry out the connection via Internet, Digifort requires two communication ports, the port 8600 and another configurable port.

12.1 How to access the configurations of the Web Server

To access the configurations of the Web Server, click on the item **Web Server**, and click on **Configurations**, located in the Configurations Menu, as shown in the picture below:

Once this is done, the configurations of the Web Server will be displayed at right, as shown in the picture below:

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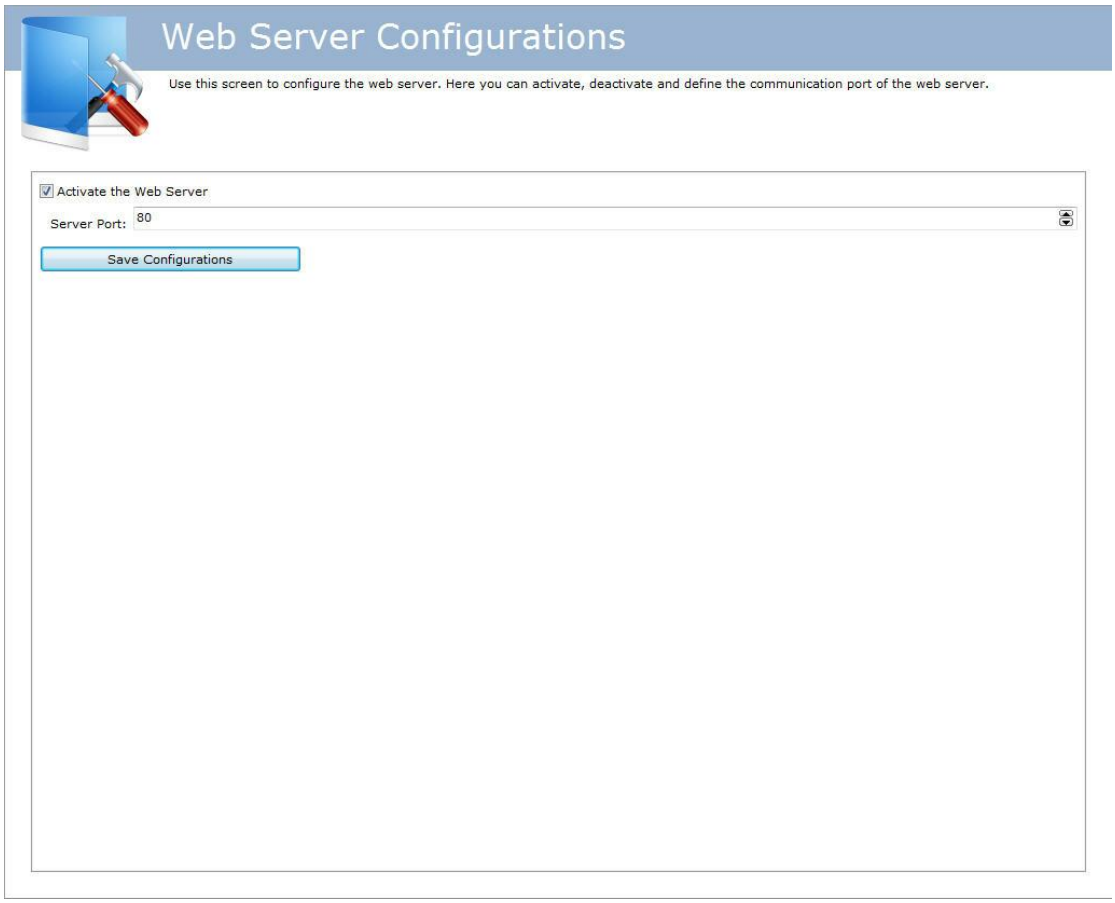
Web Server Configurations
Use this screen to configure the web server. Here you can activate, deactivate and define the communication port of the web server.
Activate the Web Server
Server Port:
80
Save Configurations

- **Activate the Web server**: Activates the Web server Web allowing users to connect to the server by way on an Internet navigator.
- **Server port:** The port used for access to the server. This port can be modified and must be configured in your router for external access. Digifort uses a different one internally, because the port 8600

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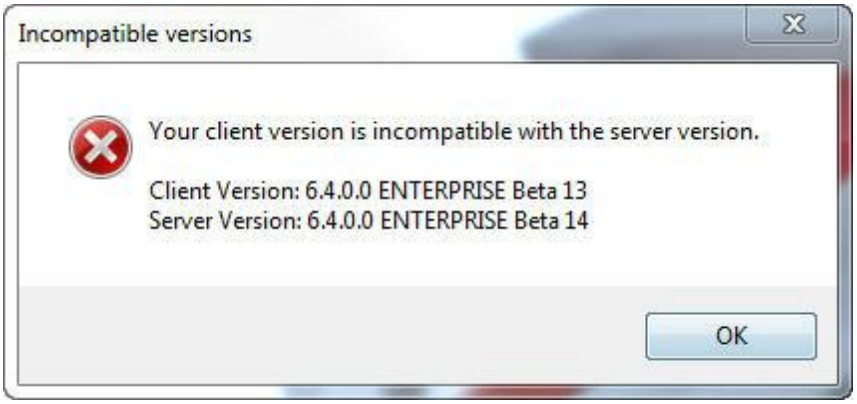
Chapter XIII

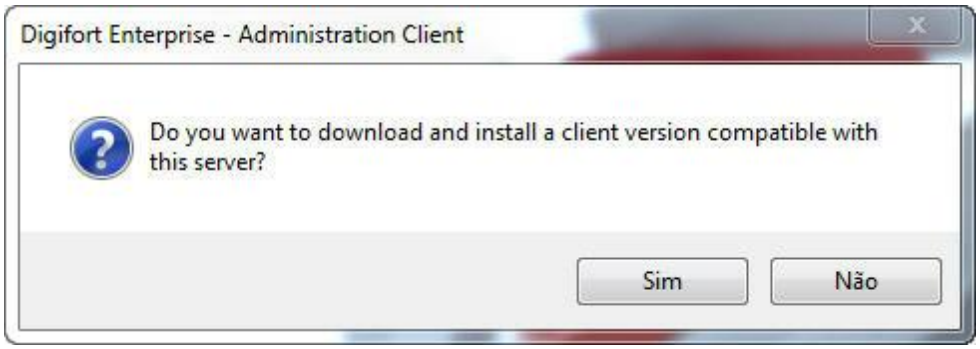
13 Automatic Client update

With swiftness and speed in mind, Digifort created a new feature that will be available in all the post-6.4 versions: the automatic update of the Surveillance and Administration Clients.
The feature will check if the server versions to which the client is trying to connect are the same.

When logging into the system, whether at the Administration Client or the Surveillance Client, if the versions are not compatible (for example: 6.4 with 6.5) the following message will appear: **Your client version is incompatible with the server version**, as shown in the picture below:


Incompatible versions
Your client version is incompatible with the server version.
Client Version: 6.4.0.0 ENTERPRISE Beta 13
Server Version: 6.4.0.0 ENTERPRISE Beta 14
OK

By clicking on **OK** a dialogue box will open with the following question: **Do you wish to download and install a client version compatible with this server?**


Digifort Enterprise - Administration Client
Do you want to download and install a client version compatible with this server?
Sim
Não

If you click on **No** the dialogue box closes and nothing happens. If you click on **Yes**, Digifort automatically installs the compatible client versions on the computer.

If the Digifort version on your computer is compatible, you will get the following message: **A compatible version is already installed on your computer; do you wish to execute it?**

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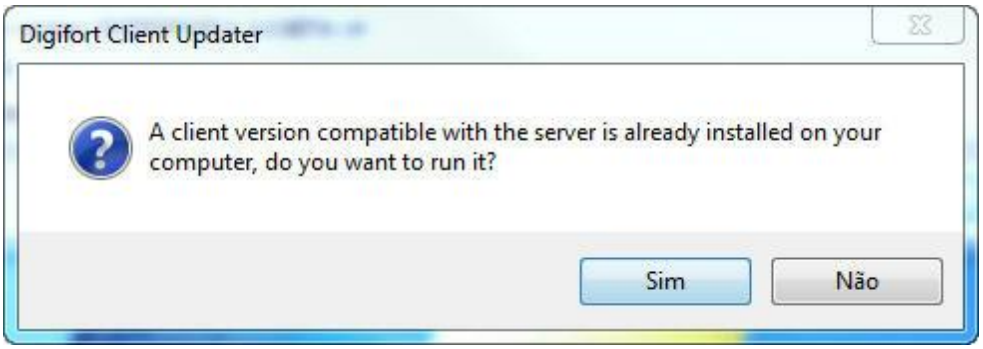
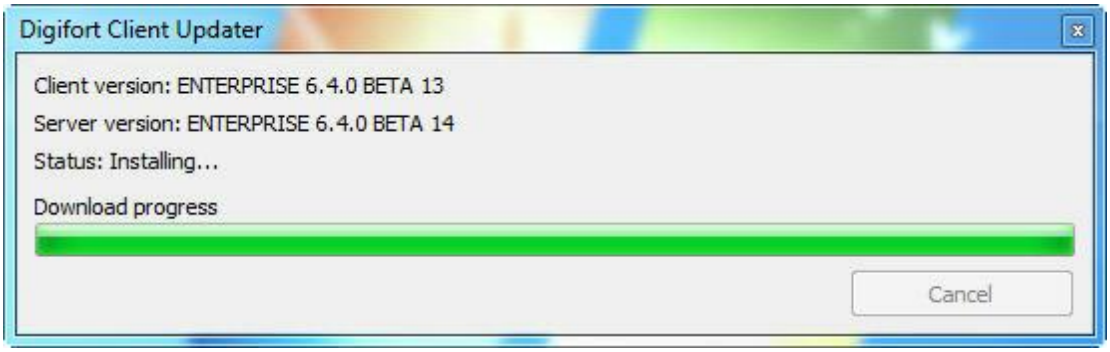

Digifort Client Updater
A client version compatible with the server is already installed on your computer, do you want to run it?
Sim
Não

If you click on **Yes** the client will execute. Otherwise, the client installation will continue:



Continue the installation as normal and at the end click on **Finish**:

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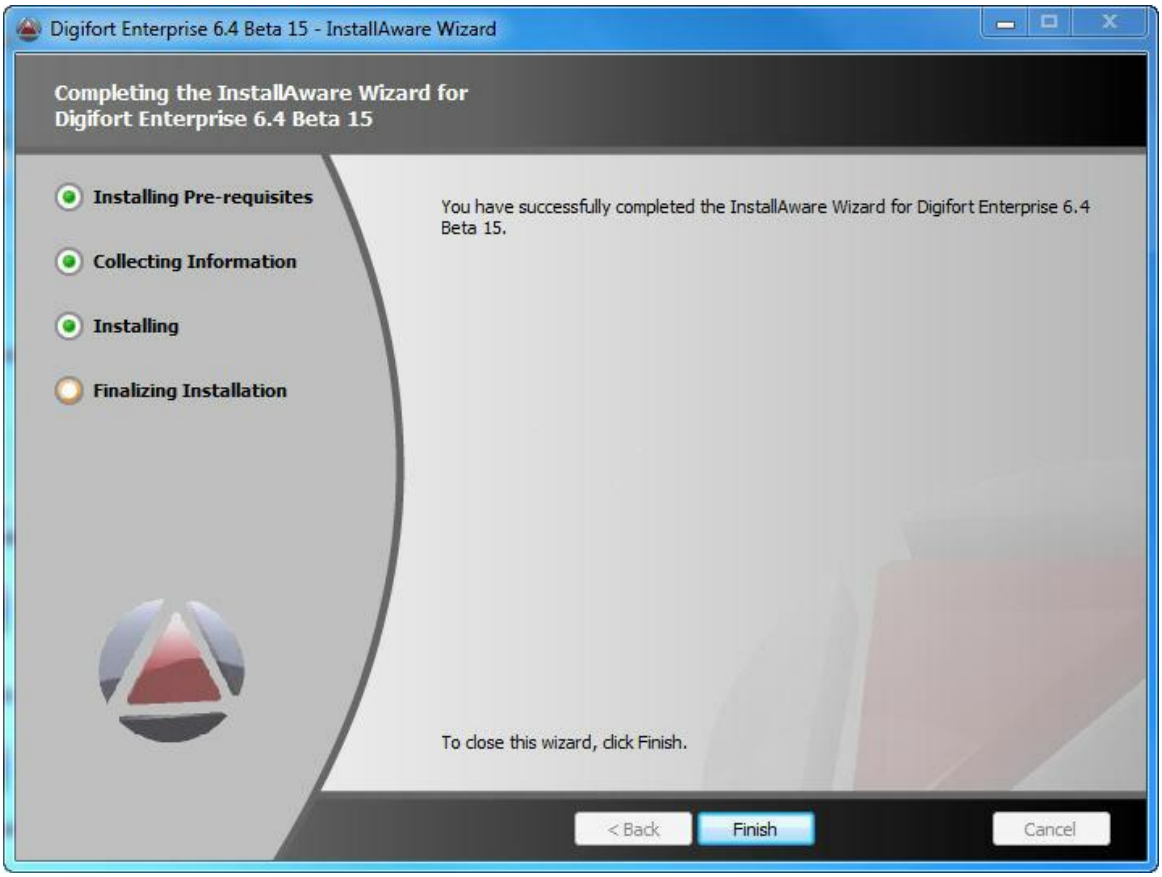
Digifort Enterprise 6.4 Beta 15 - InstallAware Wizard
Completing the InstallAware Wizard for Digifort Enterprise 6.4 Beta 15
Installing Pre-requisites
Collecting Information
Installing
Finalizing Installation
You have successfully completed the InstallAware Wizard for Digifort Enterprise 6.4 Beta 15.
To close this wizard, click Finish.
< Back
Finish
Cancel

Once installed, the compatible client is ready to connect to the requested server.

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